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Ms. Patricia Simmons Pierre
United States Environmental Protection Agency, Region II
290 Broadway
New York, New York 10007-1866

RE: Revised Drum/Container Excavation Findings Report
Malta Rocket Fuel Area Superfund Site

CB&I Environmental and Infrastructure, Inc. (CB&I) submits this report summarizing the methodology and findings for the investigation of the northeast corner of the former Malta Rocket Test Station where historic buried containers and metal debris were previously identified (referred to in this report as the "Northeast Debris Area"). The purpose of this investigation was to excavate and fully characterize the contents of any drums/containers, and to identify impacts from the debris to the soil and groundwater quality in this area.

BACKGROUND

The former Test Station is located in the Towns of Malta and Stillwater, New York and includes approximately 165 acres of developed land (**Figure 1**, Site Location Map and **Figure 1A**, Site Location Image). The former Test Station and portions of recently developed surrounding areas comprise the former Malta Rocket Fuel Area Site (Site).

The Test Station was established in 1945 by the U.S. Government and was owned by the New York State Energy Research and Development Authority until 1984 when it was sold to Wright Malta Corporation. Wright Malta Corporation sold the former Test Station to the Luther Forest Technology Campus Economic Development Corporation (LFTCEDC). LFTCEDC is currently developing the former Test Station specifically to support advanced manufacturing, research and development, and related industrial and commercial uses. The cornerstone company on the campus is Global Foundries and their semiconductor factory.

As part of redevelopment efforts, NAEVA Geophysics Inc. was retained by LFTCEDC and utilized high-resolution time domain electromagnetism to identify shallow ferrous and non-ferrous metallic objects at the Site. On May 12, 2014, during a "Munitions and Explosives of Concern"

(MEC) study and investigation of a particular metallic anomaly, barrel remnants and an assortment of debris were discovered in a location on the northeast corner of the former Test Station (**Figure 2**, Northeast Debris Area Survey). Under the oversight of the New York State Department of Environmental Conservation (NYSDEC), LFTCEDC contractor Precision Industrial Maintenance (PIM) excavated a total of 11 drums/containers and over-packed and/or staged them at the Site. Two of the eleven drums/containers were identified as empty (**Table 1**, Drum/Container Inventory). Additional buried drums/containers were expected at the Site based upon the results of the electromagnetic survey and the limited excavation performed at that time.

In the Spring/Summer of 2014, a Phase II Environmental Site Assessment (Phase II ESA) was performed by CT Male Associates (CT Male) for GlobalFoundries for a 17-acre area known as the Temporary Construction Parking Lot F, which is part of the Site purchased by GlobalFoundries from LFTCEDC. Temporary Construction Parking Lot F, is located directly to the north, west and south of the Northeast Debris Area. Groundwater monitoring wells were installed by GlobalFoundries in and around the Northeast Debris Area to determine groundwater quality in the area. Additionally, test borings were used to collect soil samples. Laboratory analytical results of groundwater collected from four monitoring wells (three wells to the north and one well to the south) and 26 soil samples indicated "limited and minor impacts to subsurface soils and groundwater above applicable regulatory values" in this area of the Site (additional details may be found in *Phase II Environmental Site Assessment, Temporary Construction Parking Lot F, C.T. Male Associates, Inc., October 2, 2014).*

SCOPE OF WORK

The completed scope of the work detailed in this report was documented in the September 17, 2015 Work Plan approved by the United States Environmental Protection Agency (USEPA). The required actions from the Work Plan are as follows:

1) Fully characterize the Northeast Debris Area for possible buried munitions and historic contaminants of concern and assess soil quality;

2) Update site specific Health & Safety Plan (HASP) and establish an accurate site map of the northeast corner of the Test Station, including the Northeast Debris Area. Review sample locations for post-drum/container removal soil borings;

3) Excavation of remaining drums/containers and debris encountered within the Northeast Debris Area;

4) Full characterization of the contents of drums/containers and debris encountered within the Northeast Debris Area;

5) Collect soil samples within the Northeast Debris Area to determine whether the drums/containers and debris have resulted in a release or threat of release of hazardous substances to soil above the NYSDEC Part 375 commercial and industrial soil cleanup objectives (SCOs) that may present a risk to human health or the environment, and,

6) Collection of groundwater samples in the Northeast Debris Area at soil sampling locations with elevated PID readings.

Implementation of these requirements is addressed in subsequent sections of this report.

DRUM/CONTAINER EXCAVATION PREPARATION

Health & Safety Plan

Prior to commencement of field work CB&I reviewed and updated the Health and Safety Plan (HASP) for the Site. This HASP objective is to help establish safe working conditions at the site, especially during drum/container excavation. Safety procedures and protective equipment were chosen according to potential hazards. Specific hazard control methods were evaluated and selected to minimize the potential of accident or injury. All work complied with Occupational Safety and Health Act (OSHA) standards, "Hazardous Waste Operations and Emergency Response" (29 CFR 1910.120), CB&I Health and Safety Procedures, and other federal, state, and local procedures that require the development and implementation of a HASP. Generation of this document certified that the workplace was evaluated for hazards. A hazard assessment was performed and the adequacy of selected personal protective equipment (PPE) was evaluated, and subsequently followed.

Quality Assurance Project Plan

A Quality Assurance Project Plan or QAPP was prepared. The intent of the QAPP was to detail the quality assurance/quality control (QA/QC) procedures that were followed during the collection, analysis and evaluation of analytical samples and data generated during the drum/container excavation and subsequent soil and groundwater investigation of the Northeast Debris Area. The QAPP provided general information and references CB&I's Standard Operating Procedures (SOPs) related to analytical sampling, field equipment operation, calibration and management, data collection, field sampling and management, and data quality requirements.

CB&I prepared the QAPP in accordance with the requirements of the Uniform Federal Policy for Quality Assurance Project Plans, incorporating numerous rounds of edits from the USEPA, before finalizing the document on March 21, 2016.

Geophysical Survey Results

On May 22, 2015 CB&I and Utility Survey completed a supplemental geophysical survey in the area, building upon the initial confines of the survey performed by NAEVA Geophysics Inc. Three technologies were utilized for the subsurface survey, 1) electromagnetic induction, 2) ground penetrating radar, and 3) ferro-magnetic. All work was georeferenced with global positioning equipment for accurate follow-on mapping needs. Pin flagging and spray paint were used to delineate the bounds of the inferred buried debris anomaly. The presence of buried metallic debris was confirmed, along with the anomaly dimensions previously identified. Utility Survey's Profiler Investigation Field Report is included as **Attachment A**.

Topographic Survey of the Northeast Disposal Area

On October 20, 2015 the LaBerge Group performed a survey of the Northeast Debris Area. Horizontal data (using NAD 83) and vertical data (using NAVD 88) were collected and used to develop a topographic base map of the northeast corner of the former Test Station including the results of the initial and supplemental geophysical surveys (**Figure 2**, Northeast Debris Area Survey).

Previously Excavated Container Sampling

On October 23, 2015 samples were collected from nine previously excavated drums/containers. CB&I contracted Op-Tech Environmental to perform the sampling. All sampling of the over-packed drum/containers excavated by LFTCEDC and their contractor PIM in May, 2014 was performed in Level B personal respiratory protection due to the unknown characteristics of the drum/containers (**Attachment B**, Photolog). The samples were delivered under proper chain-of-custody to ALS Environmental (ALS) in Middletown, Pennsylvania for analysis. Samples were analyzed for the following:

- Volatile Organic Compounds (VOCs) by USEPA Method 8260C;
- Semi-volatile Organic Compounds (SVOCs) by USEPA Method 8270D;
- Organochlorine Pesticides by USEPA Method 8081B;
- Herbicides by USEPA Method 8151A;
- Polychlorinated Biphenyls (PCBs) by USEPA Method 8082A;

- Total Metals by USEPA Method 6010C;
- Total Mercury by USEPA Method 7470A;
- Hexavalent Chromium by USEPA Method 7196A; and,
- General Chemistry - Reactivity, Ignitability, and Corrosivity.

Laboratory analytical results indicated that the material in the excavated drums did not exhibit hazardous waste characteristics. Minimal detections were recorded for some VOCs, SVOCs, Pesticides, Metals and sulfide. These low level compound detections were not observed in the groundwater samples collected, except for a few naturally occurring metals (i.e. iron, manganese, sodium), which marginally exceeded NYSDEC groundwater standards (refer to **Table 4b**). The results from this waste characterization sampling event are summarized on **Table 2**. Laboratory results were reviewed by CB&I's project chemist for quality control purposes. The complete laboratory data package is included as **Attachment C**.

DRUM/CONTAINER EXCAVATION

Between May 27 and June 9, 2016, a total of 46, 55-gallon drums, 2 steel buckets and 2, 1-gallon paint cans were excavated from the Northeast Debris Area. Sixteen of the drums/containers contained solid or liquid material and 34 were empty, partially to largely deformed carcasses. Additionally, 34 stainless steel cylinders marked "US Navy" were excavated from the area. Of the 34 cylinders, 20 contained holes through each of the cylinders. A complete inventory and description of drums/containers, cylinders, and investigation derived waste (IDW) is detailed on **Table 1**. The drums/containers excavated in May 2014 are included in the inventory.

The excavation work, performed by HEPACO and supervised by CB&I, was conducted in zones of protection (Exclusion, Contamination Reduction, and Support Zones), using Level B respiratory protection. HEPACO used an excavator to uncover buried debris. The excavator was equipped with a flat edged sand-type bucket and operator cab blast shielding with the operator in supplied airline with an egress bottle. After uncovering of the debris, two HEPACO workers approached the debris in Level B self-contained breathing apparatus (SCBA) with multi-gas and volatile organic vapor air monitoring. Once the debris was cleared for safe access, it was documented, photographed and contents were sampled prior to being placed in an over-pack and moved to a staging location until laboratory analysis was complete. All empty drums/containers and drum carcasses were placed in a scrap location in the staging area. All container and burial positions were mapped and labelled and are shown in **Figure 3**. A photo log of all drums/containers and debris uncovered during the excavation work is provided in **Attachment B**. Daily field notes recorded by CB&I personnel are included as **Attachment D**.

The removed drum/container debris was located approximately 3 to 4 feet bgs in the soil boring investigation area. Once the debris was removed at each location several additional feet of exploratory digging was performed, confirming no further debris existed with depth. Based on this process, CB&I determined the excavated debris area was examined to an approximate depth of 7 to 8 feet bgs.

All samples were sent to ALS for the following waste characterization analyses:

- VOCs by USEPA Method 8260C;
- SVOCs by USEPA Method 8270D;
- Organochlorine Pesticides by USEPA Method 8081B;
- Herbicides by USEPA Method 8151A;
- PCBs by USEPA Method 8082A;
- Total Metals by USEPA Method 6010C;
- Total Mercury by USEPA Method 7470A;
- Hexavalent Chromium by USEPA Method 7196A; and,
- General Chemistry - Reactivity, Ignitability, and Corrosivity.

Given limited drum/container content, coupled with the need to split samples with the USEPA onsite representative, CB&I was unable to collect matrix spike and matrix spike duplicate samples. Laboratory analytical results indicated that all liquid waste drum samples and two of the solid waste drum/container samples exhibited hazardous waste characteristics (**Tables 3a and 3b**). Laboratory results were reviewed by CB&I's project chemist. Laboratory analytical results for the drums/containers are provided in **Attachment E**.

SOIL AND GROUNDWATER INVESTIGATION

Three soil borings were completed inside the former drum/container excavation area using a Geoprobe® direct-push drill rig on September 14th and 15th, 2016. The locations of the soil borings were selected following review with the USEPA. The three boring locations, shown in **Figure 3,** are representative of three general regions where buried drums/containers containing solids or liquids were removed.

Soil samples were collected in continuous 4-foot intervals from ground surface down to the water table (i.e., 0-4 feet, 4-8 feet, 8-12 feet below ground surface[bgs]). The drill string consisted of a dual-tube arrangement to minimize hole collapse with continued downward advancement. The outer 3.25-inch diameter casing was advanced in front of the smaller diameter sampler. Samples

were extruded into a clear plastic sleeve to minimize the loss of VOCs, screened with a PID for VOC headspace, visually inspected for evidence of soil staining, characterized, and logged. Steam cleaning was performed before and between each of the sampling locations to ensure no cross-contamination would occur. In accordance with the work plan a sample from each interval (i.e. 0-4 feet, etc.) was collected for laboratory analysis. The soil sample collection procedure followed the "Soil Sampling using a Soil Probe or Core Type Sampler" standard operating procedure described in the QAPP. Sample aliquots for the VOCs were first collected from the length of the open, four foot core interval using an EnCore™sample device. The soil samples required for the remaining analyses were then taken directly from the open, four foot core interval and placed in the sample jars. Laboratory analyses were performed for VOCs, SVOCs, Organochlorine Pesticides, Herbicides, PCBs, Total Metals, Total Mercury, Hexavalent Chromium and General Chemistry (Reactivity, Ignitability and Corrosivity). The USEPA onsite representative collected split samples for each of the three borings.

The soil borings were advanced and logged to a total depth of 14 feet bgs, where groundwater was encountered. Soil type throughout consisted of dark yellowish brown, poorly graded fine-to-medium sand with trace amounts of fines. Soil boring logs are presented in **Attachment F**.

Following the completion of soil boring characterization and sampling the driller removed the drill string, completing the hole with bentonite fill. Based on PID readings, a second hole was advanced within a few feet at each location to collect a representative groundwater sample from that location. A slotted, 5-foot sampler was attached to the direct push rod assembly and advanced to a water collection depth of 14 to 19 feet bgs or the upper five feet of the groundwater table. A peristaltic pump, with dedicated tubing was then used to purge the location and collect a groundwater sample. Since elevated PID readings were recorded at all three boring locations a groundwater sample was collected at all three locations, in accordance with the Work Plan.

Steam cleaning of the drilling equipment was performed before and after each of the sample locations to ensure no cross-contamination would occur. Laboratory analysis was performed for VOCs, SVOCs, Organochlorine Pesticides, Herbicides, PCBs, Total Metals, Total Mercury, Hexavalent Chromium, and General Chemistry (Reactivity and Ignitability). The USEPA onsite representative collected a split water sample from the SB-1 boring.

Analytical Results – Soil

Eight VOCs were detected in soil samples collected from the soil borings. None of these compounds were detected at concentrations exceeding the NYSDEC NYCRR Part 375 Soil Cleanup Objective (SCO). Two VOCs, acetone and chloroform, were detected throughout boring

SB-1. The presence of these compounds coincides with the compounds detected in drums removed (i.e. LF036, LF037, LF038, LF039 and LF042) at this location. Four VOCs, acetone, chloroform, ethyl acetate and methylene chloride, were detected throughout most of SB-2. The presence of these compounds coincides with materials detected in the removed drums (i.e. LF021, LF022 and LF023) at this location. Two VOCs, acetone and methylene chloride, were detected throughout most of SB-3. The presence of these compounds coincides with the removed drums (i.e. LF012 and LF014) at this location. Soil boring soil analytical data for VOC analysis are included in **Table 4a**. It should be noted that only compounds detected above reporting limits for one or more samples are presented on **Table 4a**. The complete analytical report, including those compounds not reported above method detection levels, can be found in **Attachment G**.

Six SVOCs were detected in soil samples collected from soil borings SB-2 and SB-3. All of these compounds were detected at estimated concentrations and did not exceed their respective SCOs.

Three Pesticides were detected in soil samples collected from soil borings SB-1 and SB-2. All of these compounds were detected at estimated concentrations and did not exceed their respective SCOs.

Numerous metals were detected in soil samples collected from the soil borings. None of these compounds were detected at concentrations exceeding the SCO. CB&I subsequently reviewed the *Remedial Investigation Report* from February 1995. The Site concentration ranges for metals in soil are comparable to those found during this investigation in the Northeast Debris Area.

Hexavalent chromium was detected in soil sample SB-1 (0-4ft) at an estimated concentration of 2.1 micrograms per kilogram. This concentration is well below the SCO. All remaining samples recorded no detection for hexavalent chromium.

The remaining methods analyzed for (PCBs, Herbicides, reactive Sulfide and reactive Cyanide) yielded no detections above laboratory method detection limits. All soil samples were not ignitable. Laboratory analytical results from soil boring soil samples are provided in **Attachment G**.

Analytical Results – Groundwater

All groundwater samples analyzed for SVOCs, PCBs, Pesticides, Herbicides, Hexavalent Chromium, reactive Sulfide and reactive Cyanide yielded no detections above laboratory method detection limits. All groundwater samples were not ignitable and pH results were within

acceptable range. Laboratory analytical results from soil boring groundwater samples are provided in **Attachment G** and summarized in **Table 4b**.

Acetone was reported at an estimated concentration of 3.7J micrograms per liter (µg/L) in sample GW-SB-3 and 3.2J µg/L in the duplicate sample. Chloroform was detected at an estimated concentration of 0.7 µg/L in sample GW-SB-1. Carbon Tetrachloride was detected at an average concentration of 2.97 µg/L (7.2 µg/L in the groundwater sample collected from the SB-1 location (GW-SB-1), 1.2 µg/L in GW-SB-2 and ND in GW-SB-3). The New York State Groundwater Standard (NYSGWS) for Carbon Tetrachloride is 5.0 µg/L. It is also noted that carbon tetrachloride was detected in soil samples collected in NE Debris Area borings (see Table 4a) ranging from ND to the highest concentration estimated at 10.1J mg/Kg.

Numerous metals were detected in the unfiltered groundwater samples collected from the soil boring locations. Iron, Manganese, and Sodium were detected in the SB-1 and SB-2 locations at concentrations exceeding the NYSGWS. Iron was detected at concentrations of 4.1 mg/L in SB-1 and 0.55 mg/L in SB-2. The NYSGWS for Iron is 0.3 mg/L. Manganese was detected at a concentration of 0.96 mg/L in SB-1. The NYSGWS for Manganese is 0.3 mg/L. Sodium was detected at concentrations of 51.7 mg/L in SB-1 and 23.8 mg/L in SB-2. The NYSGWS for Sodium is 20 mg/L. CB&I subsequently reviewed the *Remedial Investigation Report* from February 1995. The Site concentration ranges for metals in groundwater are comparable to those found during this investigation in the Northeast Debris Area. It is also important to note that metal concentrations tend to be higher in unfiltered groundwater samples.

Third Party Data Validation

All soil and groundwater samples were sent to ALS in Middletown, Pennsylvania. ALS is certified by the New York State Department of Health for the analysis performed. The data packages submitted by ALS contained full deliverables for validation. All soil and groundwater samples were collected and analyzed in accordance with the methodologies described in the Work Plan and QAPP. The attached Data Usability Summary Report or DUSR (**Attachment H**) was generated from review of quality control (QC) summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data were reviewed for application of validation qualifiers, in accordance with the QAPP, with guidance from the USEPA national and regional validation documents, and in consideration of specific requirements of the analytical methodology. In summary, most sample results were usable either as reported or with minor qualification or edit, all of which are provided in the attached DUSR.

DRUM/CONTAINER WASTE DISPOSAL

A total of 22 drums/containers with contents exhibiting hazardous waste characteristics were removed from the staging area and transported by Veolia ES Technical Services (EPA ID #NJD080631369) to their disposal facility in Middlesex, New Jersey (EPA ID #NJD002454544) on August 30, 2016 and September 7, 2016. MC Environmental Services (MCES) removed fourteen (14) drums of non-hazardous waste on September 23, 2016. The waste was transported to ESMI of New York in Fort Edward, New York for disposal. On October 27, 2016 MCES returned to the Site to transport the drum scrap debris to Cohen Recycling in Glens Falls, New York. Four (4) drums containing non-hazardous PPE, waste water from decontamination, and soil from the soil and groundwater investigative activities were removed from the staging area and transported by EQ Northeast, Inc. (EPA ID #MAD084814136) to their Detroit, Michigan disposal facility (EPA ID #MID980991566) on November 15, 2016. Manifests and other disposal documents are included in **Attachment I**.

Sincerely,

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Tables
Figures
Attachments: A through I

Tables

Table 1
Northeast Debris Area Malta Rocket Fuel Area Site
Drum/Container Inventory

Container ID	Date Excavated	Type Container	Contents	Contents Sampled Y/N	Sample ID	Overpack Y/N	Type Overpack	Waste Identification
1	5/28/2014	55-gallon Steel	Empty	N	NA	N	NA	Metal Scrap (in Magezine 27B when disposed)
2	5/28/2014	55-gallon Steel	Empty	N	NA	N	NA	Metal Scrap (in Magezine 27B when disposed)
3	5/28/2014	55-gallon Steel	Solid, gray material	Y	CS-LF003	Y	95-gallon plastic	Non-Hazardous
4	5/28/2014	5-gallon Steel bucket	Sand	Y	CS-LF004	Y	20-gallon plastic	Non-Hazardous
5	5/28/2014	5-gallon Steel bucket	Sand	Y	CS-LF005	Y	20-gallon plastic	Non-Hazardous
6	5/28/2014	5-gallon Steel bucket	Solid, black	Y	CS-LF006	Y	20-gallon plastic	Non-Hazardous
7	5/28/2014	55-gallon Steel	Solid, grayish pink	Y	CS-LF007	Y	95-gallon plastic	Non-Hazardous
8	5/28/2014	55-gallon Steel	Solid, grayish pink	Y	CS-LF008	Y	95-gallon plastic	Non-Hazardous
9	5/28/2014	55-gallon Steel	Solid, gray	Y	CS-LF009	Y	95-gallon plastic	Non-Hazardous
10	5/28/2014	55-gallon Steel	Solid, pink	Y	CS-LF010	Y	95-gallon plastic	Non-Hazardous
11	5/28/2014	5-gallon Steel bucket	Solid, grayish pink	Y	CS-LF011	Y	20-gallon plastic	Non-Hazardous
PPE	NA	55-gallon Plastic	PIM PPE from 5/28/14 excavation	N	NA	N	NA	Non-Hazardous
Decon	NA	55-gallon Plastic	PIM decon liquid from 5/28/14 excavation	N	NA	N	NA	Non-Hazardous
Optech PPE	NA	55-gallon Steel	Optech PPE from 10/23/15 sampling	N	NA	N	NA	Non-Hazardous
LF012	5/27/2016	55-gallon Steel closed- top drum (2-ring)	Soil /Sludge	Y	CS-LF012	Y	85-gallon Steel	**Hazardous** D022 for Chloroform
LF013	5/27/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF014	5/27/2016	55-gallon Steel closed- top drum (2-ring)	Greenish oily Liquid	Y	CS-LF014	Y	85-gallon Steel	**Hazardous** D018 Benzene, D019 Carbon Tetrachloride, D022 Chloroform
LF015	5/31/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF016	5/31/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF017	5/31/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF018	6/1/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap

Table 1
Northeast Debris Area Malta Rocket Fuel Area Site
Drum/Container Inventory

Container ID	Date Excavated	Type Container	Contents	Contents Sampled Y/N	Sample ID	Overpack Y/N	Type Overpack	Waste Identification
LF019	6/1/2016	Area containing Six mangled steel drum carcasses and Two 5-gallon pails	Empty	N	NA	N	NA	Metal Scrap
LF020	6/1/2016	55-gallon Steel closed- top drum (2-ring)	Soil /Sludge	Y	CS-LF020	Y	85-gallon Steel	Non-Hazardous
LF021	6/1/2016	55-gallon Stainless Steel closed- top drum (2-ring)	Clear Solvent-like liquid	Y	CS-LF021	Y	85-gallon Steel	**Hazardous** D022 hloroform, D010 Selenium, D001 Ignitability
LF022	6/1/2016	55-gallon Steel closed- top drum (2-ring)	Soil / Sludge	Y	CS-LF022	Y	85-gallon Steel	Non-Hazardous label Boron Trifluoride (Etherate)
LF023	6/2/2016	55-gallon Steel closed- top drum (2-ring)	Soil / Sludge	Y	CS-LF023	Y	85-gallon Steel	**Hazardous** D0018 Benzene, D022 Chloroform, D010 Selenium
LF024	6/3/2016	55-gallon Steel closed- top drum (2-ring)	Light Brown Solvent-like liquid	Y	CS-LF024	Y	85-gallon Steel	**Hazardous** D010 Selenium, D001 Ignitability
LF025	6/3/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF026	6/3/2016	55-gallon Steel closed- top drum (2-ring)	Greenish oily Liquid	Y	CS-LF026	Y	85-gallon Steel	**Hazardous** D018 Benzene, D010 Selenium, D001 Ignitability
LF027	6/6/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF028	6/6/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF029	6/6/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF030	6/6/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF031	6/6/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF032	6/6/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF033	6/6/2016	55-gallon Stainless Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF034	6/6/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF035	6/6/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF036	6/6/2016	55-gallon Steel closed- top drum (2-ring)	Light Brown Solvent-like liquid	Y	CS-LF036	Y	85-gallon Steel	**Hazardous** D0018 Benzene, D035 2-Butanone(MEK), D022 Chloroform, D010 Selenium, D001 Ignitability
LF037	6/7/2016	55-gallon Steel closed- top drum (2-ring)	Light Brown Solvent-like liquid	Y	CS-LF037	Y	85-gallon Steel	**Hazardous** D0018 Benzene, D035 2-Butanone(MEK), D022 Chloroform, D010 Selenium, D001 Ignitability
LF038	6/7/2016	55-gallon Steel closed- top drum (2-ring)	Liquid	Y	CS-LF038	Y	85-gallon Steel	**Hazardous** D039 Tetrachloroethylene, D010 Selenium, D001 Ignitability
LF039	6/7/2016	55-gallon Steel closed- top drum (2-ring)	Light Brown Solvent-like liquid	Y	CS-LF039	Y	85-gallon Steel	**Hazardous** D039 Tetrachloroethylene

Table 1
Northeast Debris Area Malta Rocket Fuel Area Site
Drum/Container Inventory

Container ID	Date Excavated	Type Container	Contents	Contents Sampled Y/N	Sample ID	Overpack Y/N	Type Overpack	Waste Identification
LF040	6/7/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF041	6/7/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF042	6/7/2016	55-gallon Steel closed- top drum (2-ring)	Light Brown Solvent-like liquid	Y	CS-LF042	Y	85-gallon Steel	**Hazardous** D0018 Benzene, D035 2-Butanone(MEK), D010 Selenium, D001 Ignitability
LF043	6/7/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF044	6/7/2016	55-gallon Steel closed- top drum (2-ring)	Light Brown Solvent-like liquid	Y	CS-LF044	Y	85-gallon Steel	**Hazardous** D0018 Benzene, D035 2-Butanone(MEK), D040 Trichloroethylene, D010 Selenium, D001 Ignitability
LF045	6/7/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF046	6/7/2016	20 Various sized Stainless Steel cylinders with holes penetrating through - Marked US Navy. Placed in 5-gal buckets with speedy dry	Unknown, Veolia inspected for EPA	N	NA	Y	55-gallon blue plastic, by Veolia after inspection	Metal Scrap (removed by EPA contractor on 9/14/16)
LF047	6/7/2016	14 Various sized Stainless Steel cylinders intact -Marked US Navy	Unknown	N	NA	N	Three 5-gallon buckets with speedy dry	Metal Scrap (detonated for EPA by NYS Police)
LF048	6/7/2016	1-gallon paint can	gray chalky solid	Y	CS-LF048-049 (composited)	Y	55-gallon steel	**Hazardous** D004 Arsenic, D007 Chromium
LF049	6/7/2016	1-gallon paint can	gray chalky solid	Y		Y		
LF050	6/8/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF051	6/8/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF052	6/8/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF053	6/8/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF054	6/8/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF055	6/8/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap
LF056	6/8/2016	55-gallon Steel closed- top drum (2-ring)	Empty	N	NA	N	NA	Metal Scrap

Table 1
Northeast Debris Area Malta Rocket Fuel Area Site
Drum/Container Inventory

Container ID	Date Excavated	Type Container	Contents	Contents Sampled Y/N	Sample ID	Overpack Y/N	Type Overpack	Waste Identification
SS-LF001	6/9/2016	55-gallon steel open top	Impacted soil, excavated during drum removal in June 2016	Y	SS-LF001-composite	N	NA	**Hazardous** D019 Carbon Tetrachloride
SS-LF002	6/9/2016	55-gallon steel open top				N	NA	
SS-LF003	6/9/2016	55-gallon steel open top				N	NA	
SS-LF004	6/9/2016	55-gallon steel open top				N	NA	
SS-LF005	6/9/2016	55-gallon steel open top				N	NA	
SS-LF006	6/9/2016	55-gallon steel open top				N	NA	
IDW-PPE	NA	55-gallon steel open top	PPE	N	NA	N	NA	**Hazardous** D004, D007, D010, D018, D019
IDW-decon	NA	55-gallon steel open top	plastic, booms	N	NA	N	NA	**Hazardous** D004, D007, D010, D018, D019
IDW-water	NA	55-gallon steel open top	decon liquid	N	NA	N	NA	**Hazardous** D018, D019, D022
IDW-PPE1	NA	85-gallon steel open top	IDW-PPE, plastic sheeting, 9/15/16	N	NA	N	NA	Non-Hazardous
IDW-PPE2	NA	55-gallon steel open top	IDW-PPE, plastic sheeting, decon equipt, probe sample liners, 9/15/16	N	NA	N	NA	Non-Hazardous
IDW-soil	NA	55-gallon steel open top	IDW-soil cuttings, 9/15/16	N	NA	N	NA	Non-Hazardous
IDW-decon	NA	55-gallon steel open top	IDW-decon and purge water, 9/15/16	N	NA	N	NA	Non-Hazardous

Table 2
Existing Drum Sample Results - Northeast Debris Area Malta
Rocket Fuel Area Site Waste Characterization, October 2015

Matrix: Solid

Location/Container Sample #			CS-LF010	CS-LF008	CS-LF009	CS-LF006	CS-DUP1 (CS-LF006)	CS-LF005	CS-LF011	CS-LF004	CS-LF003	CS-LF007
Sample Date			10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015
PID Inside Container Prior to Sampling			2.8 ppm	0 ppm	0 ppm	0 ppm	0 ppm	0 ppm	5.3 ppm	0 ppm	0 ppm	0 ppm
Lab Sample ID			2103851001	2103851002	2103851003	2103851004	2103851010	2103851005	2103851006	2103851007	2103851008	2103851009
Volatile Organic Compounds (**ug/kg** or **ppb**)	Toxicity Characteristic Regulatory Level (ug/L)	Min. Total Conc. For Solids[1] Regulatory Level (ug/kg)	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual
Chloroethane	-	-	2.9 U	2.3 U	**3 J**	62.4 U	64.1 U	72.0 U	68.2 U	5.3 U	50.1 U	4.9 U
Chloromethane	-	-	2.9 U	2.3 U	2.8 U	62.4 U	**33.6 J**	72.0 U	68.2 U	2.1 U	50.1 U	1.9 U
Methylene Chloride	-	-	**20.1**	**17.4**	**12.1**	**36.2 J**	**190**	**70 J**	**122**	**14.7**	50.1 U	**10.9**
Tetrachloroethene	700	14,000	2.9 U	2.3 U	2.8 U	**44.5 J**	64.1 U	72.0 U	68.2 U	2.1 U	50.1 U	1.9 U
1,2,4-Trichlorobenzene	-	-	**1.6 J**	5.8 U	6.9 U	187 U	128 U	216 U	205 U	5.3 U	150 U	4.9 U
Semi-Volatile Organic Compounds(**ug/kg** or **ppb**)												
Benzoic Acid	-	-	588 U	621 U	551 U	657 U	582 U	595 U	**161 J**	588 U	566 U	548 U
Biphenyl	-	-	**741**	115 U	**39.4 J**	122 U	108 U	110 U	123 U	109 U	105 U	102 U
Di-n-Butylphthalate	-	-	109 U	115 U	**242**	**673**	**1430**	110 U	**79.9 J**	109 U	105 U	102 U
Dibenzofuran	-	-	**857**	115 U	102 U	122 U	108 U	110 U	123 U	109 U	105 U	102 U
Fluorene	-	-	**719**	115 U	102 U	122 U	108 U	110 U	**381**	109 U	105 U	102 U
2-Methylnaphthalene	-	-	**937**	115 U	**105**	122 U	108 U	110 U	**271**	109 U	105 U	102 U
Naphthalene	-	-	**58.6 J**	115 U	102 U	122 U	108 U	110 U	123 U	109 U	105 U	102 U
Phenanthrene	-	-	**208**	115 U	**106**	122 U	108 U	110 U	**246**	109 U	105 U	102 U
Polychlorinated Biphenyls NONE DETECTED												
Pesticides (**ug/kg** or **ppb**)												
4,4'-DDE	-	-	17.8 U	3.8 U	3.3 U	4.0 U	3.7 U	**5.8**	4 U	3.7 U	3.5 U	3.2 U
4,4'-DDT	-	-	17.8 U	3.8 U	3.3 U	**13.2**	3.7 U	**9.3**	**8.8**	3.7 U	3.5 U	**2 J**
Herbicides NONE DETECTED												
Hexavalent Chromium NONE DETECTED												
Total Metals (**mg/kg** or **ppm**)	Regulatory Level (mg/L)	Regulatory Level (mg/kg)										
Aluminum	-	-	**7590**	**4490**	**7750**	**8100**	**5030**	**6130**	**7910**	**6640**	**5360**	**4510**
Arsenic	5.0	100.0	**1.2 J**	**2.6**	2.0 U	**1 J**	2.1 U	**1.2 J**	**1.8 J**	**1.3 J**	**1.6 J**	1.7 U
Barium	100.0	2,000.0	**21.1**	**51.2**	**29.8**	**29.7**	**16.6**	**15.9**	**59.1**	**16.1**	**14.4**	**13.4**
Beryllium	-	-	1 U	1.1 U	0.99 U	**0.44 J**	1 U	1 U	1.1 U	1 U	0.92 U	0.85 U
Cadmium	1.0	20.0	0.5 U	0.54 U	0.49 U	0.62 U	0.52 U	0.52 U	0.57 U	**0.4 J**	0.46 U	**0.31 J**
Calcium	-	-	**274**	**558**	**902**	**304**	**177**	**174**	**1590**	**256**	**278**	**316**
Chromium	5.0	100.0	**7.1**	**4.3**	**8.3**	**7**	**4.4**	**5.6**	**5.6**	**6.6**	**6.2**	**4.9**
Cobalt	-	-	**5**	**0.6 J**	**2.3**	**3.5**	**2.6**	**3.2**	**0.63 J**	**7**	**3.4**	**3.3**
Copper	-	-	**9.1**	**6.3**	**7.3**	**7.3**	**5**	**8.9**	**6.7**	**10.3**	**9.6**	**6.9**
Iron	-	-	**12200**	**6130**	**35400**	**11400**	**8210**	**10100**	**7530**	**12200**	**16600**	**26500**
Lead	5.0	100.0	**3.5**	**4.3**	**4.7**	**6.4**	**2.6**	**2.9**	**4.1**	**3.5**	**3.2**	**3.6**
Magnesium	-	-	**1400**	**1670**	**1570**	**1160**	**880**	**1150**	**1210**	**1460**	**1140**	**1040**
Manganese	-	-	**208**	**20.1**	**146**	**442**	**201**	**113**	**26.3**	**399**	**218**	**219**
Mercury	0.2	4.0	**3.3**	**0.03 J**	0.045 U	0.053 U	0.056 U	0.052 U	0.059 U	0.049 U	**0.22**	0.043 U
Nickel	-	-	**11**	**2 J**	**8.8**	**7.9**	**6**	**7.6**	**2.2 J**	**18.4**	**15.6**	**8.5**
Potassium	-	-	**213**	**1110**	**1140**	**325**	**139**	**118**	**3610**	**284**	**231**	**135**
Sodium	-	-	**35.2 J**	**534**	**221**	**40.4 J**	**31.3 J**	51.5 U	**1340**	**42.6 J**	**46**	**25.7 J**
Vanadium	-	-	**14.6**	**7.6**	**13.8**	**14.7**	**9.2**	**10.8**	**11**	**13.9**	**10.4**	**9.2**
Zinc	-	-	**27.4**	**6.3**	**39.2**	**25.4**	**13.9**	**23.9**	**3.3**	**1050**	**19.4**	**128**
Characteristic for Waste												
Cyanide, Reactive (**ppm**)	-	-	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U
Sulfide, Reactive (**ppm**)	-	-	**4.4 J**	**6.4**	**6.4**	**6.4**	NA	**8.4**	**3.6 J**	**5.6 J**	**6 J**	**3.2 J**
Ignitability	-	-	Not Ignitable	Not Ignitable	Not Ignitable	Not Ignitable	NA	Not Ignitable	Not Ignitable	Not Ignitable	Not Ignitable	Not Ignitable

Notes:

Toxicity Regulatory Levels as given in 40 CFR 261.24.
Only compounds detected above reporting limits for one or more samples presented above.
"-" = No Toxicity Characteristic Regulatory Level given for analyte.
Polychlorinated Biphenyls, Herbicides, and Hexavalent Chromium were not detected above reporting limits for all samples.
Analytical method results presented in units from laboratory report.
Bold represents detected compounds above laboratory reporting limits.
Shaded cells represent detection above Toxicity Characteristic Hazardous Waste Regulatory Level (Toxicity, D004-D043 [40 CFR 261.24]).
Data not independently validated.
[1]Maximum TCLP for a Solid Material = Total Concentration of Constituent / 20
U = Indicates the analyte was not detected.
J = Indicates an estimated value between the Method Detection Limit and Practical Quantitation Limit for the analyte.
NA = Not Analyzed

Table 3a
Malta Rocket Fuel Area Site - Northeast Debris Area Drum Sampling

Matrix: Liquid

Location/Container Sample #		CS-LF014	DUP1-WATER (CS-LF014)	CS-LF023	CS-LF021	CS-LF024	CS-LF026	CS-LF036	CS-LF037	CS-LF038	CS-LF039	CS-LF042	CS-LF044
Sample Date		5/31/2016	5/31/2016	6/2/2016	6/3/2016	6/3/2016	6/3/2016	6/6/2016	6/7/2016	6/7/2016	6/7/2016	6/7/2016	6/7/2016
PID Inside Container Prior to Sampling		950 ppm	950 ppm	20 ppm	>2500 ppm	5 ppm*	0 ppm	>2500 ppm	750 ppm**	650 ppm**	800 ppm**	850 ppm**	100 ppm
Lab Sample ID		2147928001	2147927001	2148419001	2149112001	2149113001	2149111001	2149548001	2149984001	2149984003	2149983001	2149983002	2149983002
Volatile Organic Compounds (**ug/kg** or **ppb**)	Toxicity Characteristic Regulatory Level (ug/L)	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual
Acetone	-	20000 U	28100 U	**29300**	**533000000**	**544000000**	89300 U	**9820000**	**2250000**	4900000 U	12500000 U	**2850000**	**4630000**
Benzene	500	**6720**	**6800**	**13700**	909000 U	971000 U	**5590 J**	**115000**	**194000**	490000 U	1250000 U	**180000**	**163000**
Bromomethane	-	2000 U	2810 U	2290 U	**473000 J**	**687000 J**	**4160 J**	46700 U	75800 U	490000 U	1250000 U	71400 U	50000 U
2-Butanone	200,000	20000 U	28100 U	22900 U	9090000 U	9710000 U	89300 U	**683000**	**1140000**	4900000 U	12500000 U	**1350000**	**1010000**
Carbon Tetrachloride	500	**1430 J**	2810 U	2290 U	909000 U	971000 U	8930 U	46700 U	75800 U	490000 U	1250000 U	71400 U	50000 U
Chloroethane	-	**956 J**	**1010 J**	**8310**	909000 U	971000 U	8930 U	46700 U	75800 U	490000 U	1250000 U	71400 U	50000 U
Chloroform	6,000	**6400**	**7270**	**105000**	**273000 J**	971000 U	**2120 J**	**10200 J**	**23700 J**	490000 U	1250000 U	**20300 J**	50000 U
Chloromethane	-	2000 U	2810 U	**736 J**	**546000 J**	**542000 J**	**8270 J**	**26000 J**	**28000 J**	490000 U	1250000 U	**38800 J**	50000 U
Cyclohexane	-	**25200**	**28600**	**53200**	909000 U	971000 U	**13900**	**125000**	**129000**	490000 U	1250000 U	**175000**	**234000**
Ethylbenzene	-	**109000**	**121000**	**117000**	909000 U	971000 U	**48000**	46700 U	75800 U	490000 U	1250000 U	71400 U	**35100 J**
Isopropylbenzene	-	**73000**	**81000**	**77600**	909000 U	971000 U	**32600**	46700 U	75800 U	490000 U	1250000 U	71400 U	**29500 J**
Methyl acetate	-	4000 U	5620 U	4590 U	1820000 U	1940000 U	17900 U	93500 U	**728000**	980000 U	2500000 U	**1400000**	100000 U
Methyl cyclohexane	-	**212000**	**243000**	**288000**	909000 U	971000 U	**85000**	**298000**	**356000**	490000 U	1250000 U	**418000**	**492000**
4-Methyl-2-Pentanone (MIBK)	-	10000 U	14000 U	11500 U	4550000 U	4850000 U	44600 U	**4820000**	**7270000**	2450000 U	6250000 U	**8180000**	**8100000**
Methylene Chloride	-	**1590 J**	**2730 J**	**2660**	909000 U	971000 U	8930 U	46700 U	75800 U	490000 U	1250000 U	71400 U	**37800 J**
Tetrachloroethene	700	2000 U	2810 U	2290 U	909000 U	971000 U	8930 U	46700 U	75800 U	**538000**	**808000 J**	71400 U	50000 U
Toluene	-	**127000**	**139000**	**164000**	**1710000**	971000 U	**55200**	**175000**	**241000**	490000 U	1250000 U	**234000**	**215000**
Total Xylenes	-	**1040000**	**1160000**	**918000**	2730000 U	2910000 U	**453000**	**59600 J**	**56800 J**	1470000 U	3750000 U	214000 U	**158000**
Trichloroethene	500	2000 U	2810 U	2290 U	909000 U	971000 U	8930 U	46700 U	75800 U	490000 U	1250000 U	71400 U	**219000**
1,2,4-Trichlorobenzene	-	4000 U	5620 U	4590 U	1820000 U	1940000 U	17900 U	93500 U	152000 U	980000 U	2500000 U	143000 U	100000 U
o-Xylene	-	**327000**	**366000**	**289000**	909000 U	971000 U	**142000**	46700 U	75800 U	490000 U	1250000 U	71400 U	**30100 J**
mp-Xylene	-	**712000**	**795000**	**629000**	1820000 U	1940000 U	**310000**	**45500 J**	**56800 J**	980000 U	2500000 U	**46100 J**	**128000**
Semi-Volatile Organic Compounds(**ug/kg** or **ppb**)	Regulatory Level (ug/L)												
Anthracene	-	14800 U	15000 U	14800 U	14700 U	14900 U	14900 U	15000 U	14300 U	13700 U	NA	13500 U	14500 U
Benzo(a)anthracene	-	**22600**	**19000**	14800 U	14700 U	14900 U	14900 U	15000 U	14300 U	13700 U	NA	13500 U	14500 U
Di-n-Butylphthalate	-	**14000 J**	15000 U	14800 U	14700 U	14900 U	14900 U	15000 U	14300 U	13700 U	NA	13500 U	14500 U
Dibenzofuran	-	**48600**	15000 U	**41500**	**13100 J**	**20000**	**43700**	15000 U	14300 U	13700 U	NA	13500 U	14500 U
2,4-Dimethylphenol	-	29600 U	29900 U	**129000**	29400 U	29700 U	29800 U	29900 U	28600 U	27400 U	NA	27000 U	29000 U
Fluoranthene	-	**24300**	**23200**	14800 U	14700 U	14900 U	14900 U	15000 U	14300 U	13700 U	NA	13500 U	14500 U
Fluorene	-	**69400**	**70700**	**41100**	**11400 J**	**21800**	**50900**	15000 U	14300 U	13700 U	NA	13500 U	14500 U
Isophorone	-	14800 U	15000 U	14800 U	14700 U	**537000**	14900 U	15000 U	14300 U	13700 U	NA	13500 U	14500 U
2-Methylnaphthalene	-	**2490000**	**2520000**	**2650000**	**570000**	**948000**	**1280000**	15000 U	14300 U	13700 U	NA	13500 U	14500 U
Naphthalene	-	**1340000**	**1320000**	**1380000**	**307000**	**500000**	**654000**	15000 U	14300 U	13700 U	NA	13500 U	14500 U
Phenanthrene	-	**83500**	**86100**	**15800**	14700 U	14900 U	**59800**	15000 U	14300 U	13700 U	NA	13500 U	14500 U
Pyrene	-	**56600**	**57700**	14800 U	14700 U	14900 U	14900 U	15000 U	14300 U	13700 U	NA	13500 U	14500 U
Polychlorinated Biphenyls NONE DETECTED													
Pesticides (**ug/kg** or **ppb**)	Regulatory Level (ug/L)												
gamma-BHC	-	49.4 U	49.4 U	49.4 U	47.4 U	46.6 U	48.2 U	48.9 U	49.0 U	49.6 U	NA	48.5 U	43.0 U
4,4'-DDE	-	49.4 U	49.4 U	49.4 U	47.4 U	46.6 U	48.2 U	48.9 U	49.0 U	49.6 U	NA	48.5 U	43.0 U
4,4'-DDT	-	49.4 U	49.4 U	49.4 U	47.4 U	46.6 U	**50.0**	48.9 U	49.0 U	49.6 U	NA	48.5 U	43.0 U
Herbicides NONE DETECTED													
Hexavalent Chromium NONE DETECTED													
Total Metals (**mg/kg** or **ppm**)	Regulatory Level (mg/L)												
Aluminum	-	**12.2 J**	**10.6 J**	**16.3 J**	**27.4**	**777**	19.2 U	**11.4 J**	**36.7**	**17.0 J**	NA	**88.9**	**24.2**
Antimony	-	3.7 U	3.8 U	3.8 U	4.3 U	4.0 U	3.8 U	4.2 U	4.0 U	4.5 U	NA	3.8 U	4.2 U
Arsenic	5.00	3.7 U	3.8 U	3.8 U	4.3 U	4.0 U	3.8 U	4.2 U	4.0 U	4.5 U	NA	3.8 U	4.2 U
Barium	100.0	**5.5**	**3.2**	**8.6**	**1.8 J**	**4.0**	**7.1**	**0.96 J**	**1.7 J**	**6.0**	NA	**6.6**	**0.88 J**
Beryllium	-	1.9 U	1.9 U	1.9 U	2.2 U	2.0 U	1.9 U	2.1 U	2.0 U	2.3 U	NA	1.9 U	2.1 U
Cadmium	1.0	0.93 U	0.96 U	0.96 U	1.1 U	1.0 U	0.96 U	1.0 U	1.0 U	1.1 U	NA	0.96 U	1.0 U
Calcium	-	**37.9**	**12.4 J**	**34.2**	**28.3**	**48.3**	**32.8**	**27.6**	**67.9**	**85.9**	NA	**57.8**	**40.4**
Chromium	5.0	1.9 U	1.9 U	1.9 U	2.2 U	**1.8 J**	1.9 U	2.1 U	2.0 U	2.3 U	NA	1.9 U	2.1 U
Cobalt	-	1.9 U	1.9 U	1.9 U	2.2 U	2.0 U	1.9 U	2.1 U	2.0 U	2.3 U	NA	1.9 U	2.1 U
Copper	-	**2.0 J**	**2.4 J**	**2.7 J**	4.3 U	**6.2**	3.8 U	4.2 U	4.0 U	4.5 U	NA	3.8 U	4.2 U
Iron	-	**33.1**	**30.7**	**93.8**	**179**	**1590**	**108**	**503**	**1600**	**20.8 J**	NA	**356**	**401**
Lead	5.0	3.7 U	3.8 U	3.8 U	**1.9 J**	**4.7**	**1.4 J**	4.2 U	4.0 U	4.5 U	NA	3.8 U	4.2 U
Magnesium	-	18.5 U	19.2 U	19.2 U	21.7 U	**95.7**	19.2 U	20.8 U	20.0 U	22.7 U	NA	**10.5 J**	20.8 U
Manganese	-	1.9 U	1.9 U	1.9 U	2.2 U	**22.3**	1.9 U	**2.4**	**18.9**	2.3 U	NA	**6.5**	**3.0**
Mercury	0.2	0.013 U	0.012 U	0.012 U	0.048 U	0.045 U	0.025 U	0.049 U	0.050 U	0.10 U	NA	0.050 U	0.096 U
Nickel	-	3.7 U	3.8 U	3.8 U	4.3 U	**1.4 J**	3.8 U	4.2 U	4.0 U	4.5 U	NA	3.8 U	4.2 U
Potassium	-	92.6 U	96.2 U	96.2 U	109 U	**89.1 J**	96.2 U	104 U	100 U	114 U	NA	96.2 U	104 U
Selenium	1.0	9.3 U	9.6 U	**4.3 J**	**9.2 J**	**7.9 J**	9.6 U	**5.9 J**	**6.7 J**	**4.5 J**	NA	**5.6 J**	**9.3 J**
Sodium	-	92.6 U	96.2 U	96.2 U	109 U	100 U	96.2 U	**50.2 J**	100 U	114 U	NA	96.2 U	104 U
Vanadium	-	1.9 U	1.9 U	1.9 U	2.2 U	**1.5 J**	1.9 U	2.1 U	2.0 U	2.3 U	NA	1.9 U	2.1 U
Zinc	-	**1.8 J**	**2.8 J**	**3.0 J**	**1070**	**218**	**1.3 J**	**6.7**	**2.5 J**	4.5 U	NA	3.8 U	4.2 U
Characteristic for Waste													
Corrosivity as pH		5.03	5.04	6.50	**0.05**	**2.06**	6.62	6.58	2.50	3.29	NA	3.09	2.51
Cyanide, Reactive (**ppm**)		10 U	10 U	10 U	10 U	10 U	10 U	**0.020 J**	**0.015 J**	**0.015 J**	NA	**0.015 J**	**0.015 J**
Sulfide, Reactive (**ppm**)		6.2 U	**8.4**	**2.0 J**	**19.2**	**51.6**	**5.6 J**	6.2 U	**2.0 J**	**3.2 J**	NA	**2.0 J**	6.2 U
Ignitability		Not Ignitable	Not Ignitable	Not Ignitable	**Ignitable**	**Ignitable**	**Ignitable**	**Ignitable**	**Ignitable**	**Ignitable**	NA	**Ignitable**	**Ignitable**

Notes:

Toxicity Regulatory Levels as given in 40 CFR 261.24.

Only compounds detected above reporting limits for one or more samples presented above.

"-" = No Toxicity Characteristic Regulatory Level given for analyte.

Polychlorinated Biphenyls, Herbicides and Hexavalent Chromium were not detected above reporting limits for all samples.

Analytical method results presented in units from laboratory report.

Bold represents detected compounds above laboratory reporting limits.

Shaded cells represent detection above Characteristic Hazardous Waste Regulatory Level (Toxicity, D004-D043 [40 CFR 261.24], Ignitability, D001 [40 CFR 261.21], or Corrosivity, D002 [40 CFR 261.22]).

Data not independently validated.

U = Indicates the analyte was not detected.

J = Indicates an estimated value between the Method Detection Limit and Practical Quantitation Limit for the analyte.

> = PID reading above instrument calibration level.

* = Readings are approach readings only; headspace not tested.

** = Readings are on sample container headspace.

NA = Not Analyzed; Not enough volume.

Table 3b
Malta Rocket Fuel Area Site - Northeast Debris Area Drum Sampling

Matrix Solid

Location/Container Sample #			CS-LF012	CS-LF020	CS-LF022	DUP1-SOIL (CS-LF022)	CS-LF048-LF049	SS-LF001-COMPOSITE
Sample Date			5/27/2016	6/1/2016	6/2/2016	6/2/2016	6/9/2016	6/9/2016
PID Inside Container Prior to Sampling			0 ppm	0 ppm	15 ppm	15 ppm	0 ppm	NA
Lab Sample ID			2147286001	2147996001	2148418001	2148418002	2150380001	2150380002
Volatile Organic Compounds (**ug/kg** or **ppb**)	Toxicity Characteristic Regulatory Level (ug/L)	Min. Total Conc. For Solids[1] Regulatory Level (ug/kg)	Qual	Qual	Qual	Qual	Qual	Qual
Acetone	-	-	**700000**	**13700**	**597**	**484**	971 U	**2260**
Benzene	500	10,000	**2850**	568 U	3.1 U	3.4 U	97.1 U	61.1 U
Bromomethane	-	-	1180 U	568 U	3.1 U	2810 U	**174 J**	**180 J**
2-Butanone	200,000	4,000,000	11800 U	5680 U	**7.1 J**	**23.0**	971 U	611 U
n-Butylbenzene	-	-	2350 U	1140 U	3.1 U	3.4 U	194 U	**6510**
tert-Butylbenzene	-	-	2350 U	1140 U	3.1 U	**7.1**	194 U	122 U
sec-Butylbenzene	-	-	**19100**	**3660**	3.1 U	3.4 U	97.1 U	**3480**
Carbon Tetrachloride	500	10,000	1180 U	568 U	3.1 U	3.4 U	97.1 U	**14200**
Chloroethane	-	-	**843 J**	568 U	7.7 U	8.4 U	97.1 U	61.1 U
Chloroform	6,000	120,000	**1020000**	**432 J**	3.1 U	3.4 U	97.1 U	**1480**
Chloromethane	-	-	**684 J**	568 U	3.1 U	3.4 U	**180 J**	**136 J**
1,1-Dichloropropene	-	-	**447 J**	568 U	3.1 U	3.4 U	97.1 U	61.1 U
Ethyl Acetate	-	-	2350 U	1140 U	**14.1**	**128**	194 U	122 U
Ethylbenzene	-	-	**29000**	**2480**	3.1 U	3.4 U	97.1 U	**1960**
Isopropylbenzene	-	-	**18400**	**3170**	3.1 U	3.4 U	97.1 U	**2010**
p-Isopropyltoluene	-	-	**34800**	**6580**	3.1 U	3.4 U	97.1 U	**5080**
Methyl acetate	-	-	2350 U	1140 U	**2.3 J**	3.4 U	**592**	122 U
Methyl cyclohexane	-	-	**41100**	**485 J**	3.1 U	3.4 U	97.1 U	**2200**
Methyl t-Butyl Ether	-	-	1180 U	568 U	**0.81 J**	3.4 U	97.1 U	61.1 U
4-Methyl-2-Pentanone (MIBK)	-	-	5880 U	2840 U	15.4 U	**14.3 J**	485 U	305 U
Methylene Chloride	-	-	**33200**	**411 J**	**26.5**	**29.8**	**98.9**	61.1 U
Naphthalene	-	-	**601000**	**44000**	**0.90 J**	**1.6 J**	194 U	**38600**
n-Propylbenzene	-	-	**38500**	**6790**	3.1 U	3.4 U	97.1 U	**4560**
Tetrachloroethene	700	14,000	1180 U	568 U	3.1 U	3.4 U	97.1 U	61.1 U
Toluene	-	-	**30200**	**678**	3.1 U	3.4 U	97.1 U	**1330**
Total Xylenes	-	-	**287000**	**31400**	9.3 U	10.1 U	291 U	**24400**
1,2,4-Trichlorobenzene	-	-	2350 U	1140 U	7.7 U	8.4 U	194 U	122 U
Trichloroethene	500	10,000	1180 U	568 U	3.1 U	3.4 U	97.1 U	**73.8**
1,2,4-Trimethylbenzene	-	-	**530000**	**63400**	3.1 U	**1.3 J**	97.1 U	**39400**
1,3,5-Trimethylbenzene	-	-	**121000**	**21600**	3.1 U	3.4 U	97.1 U	**10300**
o-Xylene	-	-	**91600**	**11800**	3.1 U	3.4 U	97.1 U	**8340**
mp-Xylene	-	-	**195000**	**19600**	6.2 U	6.7 U	194 U	**16100**
Semi-Volatile Organic Compounds(**ug/kg** or **ppb**)								
Anthracene	-	-	**4390**	4670 U	52.7 U	52.0 U	72.1 U	54.3 U
Benzo(a)anthracene	-	-	2280 U	4670 U	52.7 U	52.0 U	72.1 U	**108**
Benzoic Acid	-	-	24600 U	50400 U	**111 J**	561 U	779 U	587 U
Biphenyl	-	-	**100000**	**22800**	105 U	104 U	144 U	**2900**
Chrysene	-	-	2280 U	4670 U	52.7 U	52.0 U	72.1 U	**196**
Di-n-Butylphthalate	-	-	4550 U	9340 U	105 U	104 U	144 U	109 U
Dibenzofuran	-	-	**27900**	**3710 J**	105 U	104 U	144 U	109 U
Diethylphthalate	-	-	4550 U	9340 U	105 U	104 U	**25.2 J**	109 U
bis(2-Ethylhexyl)phthalate	-	-	4550 U	9340 U	**2040**	**961**	144 U	109 U
Fluorene	-	-	**34700**	**3720 J**	52.7 U	52.0 U	72.1 U	**1310**
2-Methylnaphthalene	-	-	**1500000**	**170000**	**12.0 J**	104 U	144 U	**70300**
Naphthalene	-	-	**730000**	**91100**	52.7 U	52.0 U	72.1 U	**27500**
Phenanthrene	-	-	**23000**	**2430 J**	52.7 U	52.0 U	72.1 U	**2070**
Pyrene	-	-	**5870**	4670 U	52.7 U	52.0 U	72.1 U	**258**
Polychlorinated Biphenyls (**mg/kg or ppm**)								
Aroclor-1254	-	-	2.7 U	2.9 U	0.036 U	0.036 U	**0.13**	0.035 U
Pesticides (**ug/kg** or **ppb**)								
gamma-BHC	-	-	**334**	75.6 U	9.2 U	9.4 U	12.3 U	8.9 U
4,4'-DDD	-	-	137 U	**45.3 J**	17.8 U	18.2 U	24.0 U	17.4 U
4,4'-DDE	-	-	137 U	147 U	17.8 U	18.2 U	24.0 U	17.4 U
4,4'-DDT	-	-	137 U	147 U	**5.0 J**	**3.2 J**	24.0 U	17.4 U
Herbicides NONE DETECTED								
Hexavalent Chromium (**mg/kg or ppm**)								
Hexavalent Chromium			2.4 U	2.4 U	2.2 U	2.2 U	**0.91 J**	2.1 U
Total Metals (**mg/kg** or **ppm**)	Regulatory Level (mg/L)	Regulatory Level (mg/kg)						
Aluminum	-	-	**80.9**	**625**	**7710**	**8190**	**674000**	**5340**
Antimony	-	-	**4.7 J**	**3.5 J**	2.0 U	2.1 U	29.0 U	2.1 U
Arsenic	5.0	100.0	9.3 U	4.2 U	**1.9 J**	**1.8 J**	**129**	**1.1 J**
Barium	100.0	2,000.0	**221**	**300**	**18.6**	**20.2**	14.5 U	**16.0**
Beryllium	-	-	4.7 U	2.1 U	1.0 U	1.1 U	14.5 U	1.0 U
Cadmium	1.0	20.0	2.3 U	**0.66 J**	0.50 U	0.53 U	7.3 U	0.51 U
Calcium	-	-	**72.7**	**110**	**240**	**351**	**301**	**407**
Chromium	5.0	100.0	**2.8 J**	**15.6**	**7.6**	**8.7**	**15800**	**6.5**
Cobalt	-	-	**2.6 J**	**5.1**	**3.5**	**4.2**	14.5 U	**2.7**
Copper	-	-	**68.9**	**147**	**9.6**	**10.4**	**105**	**7.6**
Iron	-	-	**8450**	**110000**	**11800**	**13800**	**10700**	**9920**
Lead	5.0	100.0	**15.4**	**8.7**	**13.7**	**15.3**	**33.4**	**2.6**
Magnesium	-	-	**16.2 J**	**32.1**	**1410**	**1600**	**1420**	**1240**
Manganese	-	-	**58.4**	**312**	**232**	**288**	**104**	**176**
Mercury	0.2	4.0	**1.7**	**0.077**	0.053 U	0.055 U	0.063 U	0.052 U
Nickel	-	-	**9.3 J**	**41.3**	**8.5**	**10.1**	**17.6 J**	**6.8**
Potassium	-	-	234 U	**44.0 J**	**688**	**664**	726 U	**533**
Sodium	-	-	234 U	**56.6 J**	**45.6 J**	**59.9**	**5560**	**25.2 J**
Vanadium	-	-	4.7 U	**4.7**	**15.8**	**17.6**	**81.0**	**11.9**
Zinc	-	-	**26.9**	**2650**	**22.5**	**26.4**	**67.4**	**25.4**
Characteristic for Waste								
Cyanide, Reactive (**ppm**)	-	-	10 U	10 U	10 U	10 U	**0.015 J**	**0.015 J**
Sulfide, Reactive (**ppm**)	-	-	6.2 U	6.2 U	**2.4 J**	**3.2 J**	6.2 U	6.2 U
Ignitability	-	-	Not Ignitable	Not Ignitable	Not Ignitable	Not Ignitable	Not Ignitable	Not Ignitable

Notes:
Toxicity Regulatory Levels as given in 40 CFR 261.24.
Only compounds detected above reporting limits for one or more samples presented above.
"-" = No regulatory level for analyte.
Herbicides were not detected above reporting limits for all samples.
Analytical method results presented in units from laboratory report.
Bold represents detected compounds above laboratory reporting limits.
Shaded cells represent detection above Toxicity Characteristic Hazardous Waste Regulatory Level (Toxicity, D004-D043 [40 CFR 261.24]).
Data not independently validated.
[1]Maximum TCLP for a Solid Material = Total Concentration of Constituent / 20
U = Indicates the analyte was not detected.
J = Indicates an estimated value between the Method Detection Limit and Practical Quantitation Limit for the analyte.
NA = Not Analyzed

Table 4a
Malta Rocket Fuel Area Site - Northeast Debris Area Soil Boring

Matrix: Solid

Location/Container Sample #			SB-1 (0-4ft)		SB-1 (4-8ft)		SB-1 (8-12ft)		SB-2(0-4ft)		DUP2-SOIL (SB-2 (0-4ft)		SB-2 (4-8ft)		SB-2 (8-12ft)		SB-3 (0-4ft)		SB-3 (4-8ft)		SB-3 (8-12ft)	
Sample Date			9/14/2016		9/14/2016		9/14/2016		9/15/2016		9/15/2016		9/15/2016		9/15/2016		9/15/2016		9/15/2016		9/15/2016	
PID			19.0		20.1		17.6		5.6		5.6		14.0		75.5		23.6		15.3		17.7	
Lab Sample ID			21754529001		2175459002		21754529003		2175452001		2175452007		2175452002		2175452003		2175452004		2175452005		2175452006	
Volatile Organic Compounds (**ug/kg** or **ppb**)	DEC NYCRR Part 375 **Commercial** Use SCO (ug/kg)	DEC NYCRR Part 375 **Industrial** Use SCO (ug/kg)		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
Acetone	500,000[b]	1,000,000[c]	**9.4**	**J**	**39.1**		**18.5**		**14.7**		**10.9**	**J**	**14.7**		**33.6**		**5.6**	**J**	12.0	U	12.5	U
Acetonitrile	-	-	11.6	U	**6.4**	**J**	12.7	U	11.7	U	11.6	U	14.5	U	13.8	U	11.6	U	12.0	U	12.5	U
Carbon Tetrachloride	22,000	44,000	**4.7**		**1.4**	**J**	**1.2**	**J**	**6.8**	**J**	**10.1**	**J**	**2.5**	**J**	**3.7**		2.3	U	2.4	U	2.5	U
Chloroform	350,000	700,000	**0.75**	**J**	**0.89**	**J**	**0.71**	**J**	**2.9**		**4.4**		**2.7**	**J**	**4.1**		2.3	U	2.4	U	2.5	U
1,2-Dichloroethane	30,000	60,000	2.3	U	2.0	U	1.9	U	1.7	U	1.7	U	2.2	U	2.3	U	2.3	U	2.4	U	**1.8**	**J**
Ethyl Acetate	-	-	2.3	U	2.5	U	2.5	U	2.3	U	2.3	U	**4.2**		**1.6**	**J**	2.3	U	2.4	U	2.5	U
Methylene Chloride	500,000[b]	1,000,000[c]	2.3	U	2.5	U	2.5	U	**1.6**	**J**	**1.3**	**J**	**6.7**		**4.2**		**1.5**	**J**	**2.8**		2.5	U
Naphthalene	-	-	**0.93**	**J**	**0.65**	**J**	2.5	U	2.3	U	2.3	U	2.9	U	2.8	U	2.3	U	2.4	U	2.5	U
Semi-Volatile Organic Compounds(**ug/kg** or **ppb**)																						
Benzaldehyde	-	-	202	U	215	U	204	U	214	U	217	U	218	U	200	U	**30.5**	**J**	202	U	208	U
Benzo(a)anthracene	5,600	11,000	50.5	U	53.8	U	51.1	U	**12.4**	**J**	**9.9**	**J**	54.6	U	50.0	U	53.6	U	50.4	U	52.0	U
Benzo(b)fluoranthene	5,600	11,000	50.5	U	53.8	U	51.1	U	**12.1**	**J**	**9.3**	**J**	54.6	U	50.0	U	53.6	U	50.4	U	52.0	U
Benzoic acid	-	-	545	U	581	U	551	U	**81.7**	**J**	**69.9**	**J**	**94.2**	**J**	540	U	**41.1**	**J**	545	U	562	U
Chrysene	56,000	110,000	50.5	U	53.8	U	51.1	U	53.6	U	**9.0**	**J**	54.6	U	50.0	U	53.6	U	50.4	U	52.0	U
Indeno(1,2,3-cd)pyrene	5,600	11,000	50.5	U	53.8	U	51.1	U	**9.7**	**J**	54.3	U	54.6	U	50.0	U	53.6	U	50.4	U	52.0	U
Polychlorinated Biphenyls NONE DETECTED																						
Pesticides (**ug/kg** or **ppb**)																						
4,4'-DDE	62,000	120,000	3.4	U	3.6	U	3.3	U	**0.61**	**J**	**0.57**	**J**	**0.51**	**J**	3.5	U	3.5	U	3.5	U	3.4	U
4,4'-DDT	47,000	94,000	**1.0**	**J**	3.6	U	3.3	U	**1.2**	**J**	**1.1**	**J**	**0.98**	**J**	3.5	U	3.5	U	3.5	U	3.4	U
Methoxychlor	-	-	**0.84**	**J**	3.6	U	3.3	U	3.5	U	3.4	U	3.5	U	3.5	U	3.5	U	3.5	U	3.4	U
Herbicides NONE DETECTED																						
Total Metals (**mg/kg** or **ppm**)	SCO (mg/kg)	SCO (mg/kg)																				
Aluminum	-	-	**8830**		**5250**		**3530**	**J**	**8230**		**8830**		**11600**		**6890**		**7610**		**5110**		**4270**	
Arsenic	16[f]	16[f]	**1.5**	**J**	**0.85**	**J**	1.8	U	**1.9**		**1.7**	**J**	**1.8**	**J**	**1.7**	**J**	**0.97**	**J**	**1.3**	**J**	**0.83**	**J**
Barium	400	10,000[d]	**24.0**		**13.8**		**10.8**		**21.2**		**23.5**		**68.1**		**37.0**		**18.6**		**12.2**		**12.0**	
Calcium	-	-	**464**		**543**		**657**		**446**		**462**		**2310**		**2040**		**489**		**533**		**764**	
Chromium[h]	1,500	6,800	**8.7**		**5.6**		**4.4**		**8.0**		**8.7**		**7.2**		**6.0**		**8.0**		**5.0**		**5.5**	
Cobalt	-	-	**3.4**		**3.2**		**2.5**		**4.2**		**3.5**		**2.1**		**1.9**		**3.7**		**3.6**		**3.3**	
Copper	270	10,000[d]	**7.8**		**6.5**		**5.5**		**9.2**		**8.7**		**5.0**		**4.0**		**9.1**		**7.7**		**6.6**	
Iron	-	-	**11900**		**10000**		**8600**		**12400**		**12100**		**8510**		**7470**		**12300**		**9620**		**10800**	
Lead	1,000	3,900	**3.6**		**2.6**		**2.1**		**4.7**		**4.3**		**3.2**		**3.1**		**4.0**		**2.9**		**2.5**	
Magnesium	-	-	**1550**		**1430**		**1140**		**1570**		**1590**		**1990**		**1410**		**1550**		**1450**		**1320**	
Manganese	10,000[d]	10,000[d]	**256**		**285**		**184**		**266**		**256**		**152**		**102**		**246**		**188**		**183**	
Nickel	310	10,000[d]	**9.0**		**7.6**		**6.2**		**9.4**		**8.8**		**5.3**		**3.5**		**9.0**		**8.2**		**7.4**	
Potassium	-	-	**1150**		**865**		**613**	**J**	**776**	**J**	**1120**	**J**	**4290**		**2270**		**677**		**429**		**627**	
Sodium	-	-	**31.7**	**J**	**36.5**	**J**	**28.5**	**J**	**31.5**	**J**	**37.5**	**J**	**1970**		**985**		**23.2**	**J**	**20.5**	**J**	**30.8**	**J**
Vanadium	-	-	**19.1**		**13.3**		**10.0**		**16.8**		**18.6**		**16.2**		**13.1**		**16.3**		**10.6**		**13.3**	
Zinc	10,000[d]	10,000[d]	**24.9**		**22.0**		**17.8**		**30.7**		**30.9**		**18.6**		**10.5**		**24.6**		**21.1**		**19.8**	
Hexavalent Chromium (**mg/kg or ppm**)	19	19	**2.1**	**J**	2.1	U	2.1	U	2.2	U	2.1	U	2.2	U	2.1	U	2.1	U	2.1	U	2.1	U
Characteristic for Waste																						
Cyanide, Reactive (**ppm**)	-	-	10.0	U	10	U	10.0	U	10	U	10	U	10	U	10.0	U	10	U	10	U	10	U
Sulfide, Reactive (**ppm**)	-	-	6.0	U	6.0	U	5.6	U	9.6	U	8.8	U	10	U	2.4	U	2.0	U	5.6	U	5.6	U
Ignitability	-	-	Not Ignitable		Not Ignitable		Not Ignitable		Not Ignitable		Not Ignitable		Not Ignitable		Not Ignitable		Not Ignitable		Not Ignitable		Not Ignitable	

Notes:

New York State Department of Environmental Conservation (NYSDEC) Commercial and Industrial Soil Cleanup Objective (SCOs) were obtained from 6NYCRR Part 375, December 14, 2006.

Only compounds detected above reporting limits for one or more samples presented above.

"-" = No Regulatory Level given for analyte.

Polychlorinated Biphenyls, Herbicides and Hexavalent Chromium were not detected above reporting limits for all samples.

Analytical method results presented in units from laboratory report.

[b] The SCOs for commercial use were capped at a maximum value of 500 ppm (500,000 ppb).

[c] The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm (1,000,000 ppb).

[d] The SCOs for metals were capped at a maximum value of 10,000 ppm.

[f] For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

[h] The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The SCOs for Chromium, trivalent, are given in the table.

Bold represents detected compounds above laboratory reporting limits.

Shaded cells represent detection above NYSDEC Commercial Use SCO.

Data independently validated.

U = Indicates the analyte was not detected.

J = Indicates an estimated value between the Method Detection Limit and Practical Quantitation Limit for the analyte.

Table 4b
Malta Rocket Fuel Area Site - Northeast Debris Area Groundwater

Matrix: Liquid

Location/Container Sample #		GW-SB-1		GW-SB-2		GW-SB-3		DUP2-Water (GW-SB-3)	
Sample Date		9/14/2016		9/15/2016		9/15/2016		9/15/2016	
Lab Sample ID		2175699002		2175704001		2175701001		2175701002	
	Groundwater Quality Standards NYSDEC TOGS 1.1.1								
Volatile Organic Compounds (**ug/L** or **ppb**)	(ug/L)		Qual		Qual		Qual		Qual
Acetone	50	10.0 U		10.0 U		**3.7 J**		**3.2 J**	
Carbon tetrachloride	5	**7.2**		**1.2**		1.0 U		1.0 U	
Chloroform	7	**0.70 J**		1.7 U		1.0 U		1.0 U	
Semi-Volatile Organic Compounds NONE DETECTED									
Polychlorinated Biphenyls NONE DETECTED									
Pesticides NONE DETECTED									
Herbicides NONE DETECTED									
Hexavalent Chromium NONE DETECTED									
Total Metals (**mg/L** or **ppm**)	GQS (mg/L)								
Aluminum	-	**6.7**		**0.39**		**0.071 J**		**0.049 J**	
Arsenic	0.025	**0.0043 J**		0.009 U		0.009 U		0.009 U	
Barium	1	**0.16**		0.0064 U		0.011 U		0.011 U	
Cadmium	0.005	**0.00089 J**		0.0022 U		0.0022 U		0.0022 U	
Calcium	-	**11.1**		**12.9**		**16.2**		**15.1**	
Chromium	0.05	**0.019**		0.0056 U		0.0056 U		0.0056 U	
Cobalt	-	**0.0079**		0.0056 U		0.0056 U		0.0056 U	
Copper	0.2	**0.019**		0.011 U		0.011 U		0.011 U	
Iron	0.3	**4.1**		**0.55**		**0.083**		**0.058 J**	
Lead	0.025	**0.011**		0.0067 U		0.0067 U		0.0067 U	
Magnesium	35	**2.2**		**1.1**		**1.3**		**1.2**	
Manganese	0.3	**0.96**		**0.17**		**0.12**		**0.11**	
Nickel	0.1	**0.017 J**		0.0022 U		0.022 U		0.022 U	
Potassium	-	**2.3**		**0.83**		**0.48 J**		**0.46 J**	
Sodium	20	**51.7**		**23.8**		**4.0**		**3.7**	
Vanadium	-	**0.0051 J**		0.0056 U		0.0056 U		0.0056 U	
Zinc	2	**0.021 J**		0.022 U		0.022 U		0.022 U	
Characteristic for Waste									
Corrosivity as pH	-	**6.84 J**		**7.88 J**		**7.79 J**		**7.92 J**	
Cyanide, Reactive (**ppm**)	-	10 U		10 U		10 U		10 U	
Sulfide, Reactive (**ppm**)	-	1.6 U		3.2 U		5.2 U		6.2 U	
Ignitability	-	Not Ignitable		Not Ignitable		Not Ignitable		Not Ignitable	

New York State Department of Environmental Conservation (NYSDEC) Groundwater Quality Standards (GQSs) were obtained from the Division of Water TOGS 1.1.1, June 1998.

"-" = No GQS given for analyte.

Polychlorinated Biphenyls, Herbicides and Hexavalent Chromium were not detected above reporting limits for all samples.

Analytical method results presented in units from laboratory report.

Bold represents detected compounds above laboratory reporting limits.

Shaded cells represent detection above NYSDEC GQS.

Data independently validated.

U = Indicates the analyte was not detected.

J = Indicates an estimated value between the Method Detection Limit (MDL) and Practical Quantitation Limit (PQL) for the analyte.

Figures

OFFICE	DATE
LATHAM, NY	10/5/16

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
BN	E. Schlegel	BN	BN

DRAWING NUMBER 154035-A6

HORIZONTAL SCALE
400 200 0 400 800 1,200

REFERENCE:

GOOGLE EARTH AERIAL PHOTOGRAPH, DATED 7/15/2015.

CB&I Environmental & Infrastructure, Inc.

MALTA ROCKET FUEL AREA SITE
MALTA, NEW YORK

FIGURE 1
SITE LOCATION MAP

File: D:\Shaw Offices - CAD Files\Latham, NY\154035_Malta\154035-A6.dwg
User: Evan.Schlegel Oct 05, 2016 - 4:51pm Layout: 22x34

OFFICE LATHAM, NY

DRAWING NUMBER 154035D1

VERIFY SCALE 0 1"

REFERENCE:

BASE MAP SOUCE: USEPA

CB&I Environmental & Infrastructure, Inc.				
DESIGNED BY: BN	MALTA ROCKET FUEL AREA SITE MALTA, NEW YORK			
DRAWN BY: JLG	FIGURE 1A SITE LOCATION IMAGE			
CHECKED BY: JLG				
APPROVED BY: MJS	DATE: 05/24/17	SCALE: AS SHOWN	DRAWING NO. 154035D1	FIGURE NO. 1A

Xref: Image

File: Y:\Project\154035\154035D1.dwg
Plot Date/Time: May 24, 2017 - 4:18pm
Plotted By: jessica.gerber

DRAWING NUMBER	APPROVED BY	CHECKED BY	DRAWN BY	DESIGNED BY
154035-A5	BN	BN	E. Schlegel	BN

OFFICE	DATE
LATHAM, NY	10/5/16

NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN HEREON WAS COMPILED FROM AN ACTUAL FIELD SURVEY CONDUCTED DURING THE MONTH OF OCTOBER, 2015.
2. NORTH ORIENTATION GRID NORTH PER GPS LOCATIONS.
3. PROPERTY LINES AS SHOWN ON THIS MAP ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON AVAILABLE TAX MAP INFORMATION, AND ARE NOT INTENDED TO REPRESENT ACTUAL BOUNDARY LOCATIONS.

MAP REFERENCE:

1. FIGURE 2 SUBSURFACE INVESTIGATION LOCATIONS
   BY: C.T. MALE ASSOCIATES
   DATED: SEPTEMBER 25, 2014

GRID NORTH

PLASTIC FENCE

30" TREE STUMP

MW CTM-5S

MW

METAL UTILITY POLE

LOWEST OW EL. AT POLE = 357.5

UTILITY POLE FOUNDATION

BENCH MARK
BOX CUT IN
POLE FOUNDATION
ELEV.=319.10
NAVD '88

LANDS N/F
GLOBAL FOUNDARIES US, INC.
TAM MAP NO. 230.0-1-76.12

DEBRIS EXTENT AS MARKED OUT FROM EM AND GPR SURVEY

WOODED AREA

CLUSTER OF TREE STUMPS

16" TREE STUMP
CONC. MON. (FORMERLY)

14" TREE STUMP

12" TREE STUMP

10" TREE STUMP

CONC. MON. (FORMERLY)

CONC. MON. (FORMERLY)

APPROXIMATE NATIONAL GRID ROW

LANDS N/F
GLOBAL FOUNDARIES US, INC.
TAM MAP NO. 230.0-1-23

GATE

6' CHAIN LINK FENCE

APPROXIMATE PROPERTY BOUNDARY LINE ALONG FENCE

MW CTM-4S & CTM-4D PAIR

MW CTM-6S

LATH G10

LATH G10

6' CHAIN LINK FENCE

APPROXIMATE PROPERTY BOUNDARY LINE ALONG FENCE

LANDS N/F
LUTHER FOREST TECHNOLOGY CAMP
TAM MAP NO. 241.0-1-3.111

EXISTING LEGEND

OVERHEAD WIRE	OW
RIGHT-OF-WAY LINE	
FENCE	-x-x-x-x-
MONITORING WELL	MW
MONUMENT	MON.
WOODED OR BRUSH AREA	
TREE (CONIFEROUS/DECIDUOUS)	
EXISTING SPOT	x 202.1
CONTOUR	100

REFERENCE:

LABERGE GROUP TOPOGRAPHIC SURVEY, DATED 10/28/15.

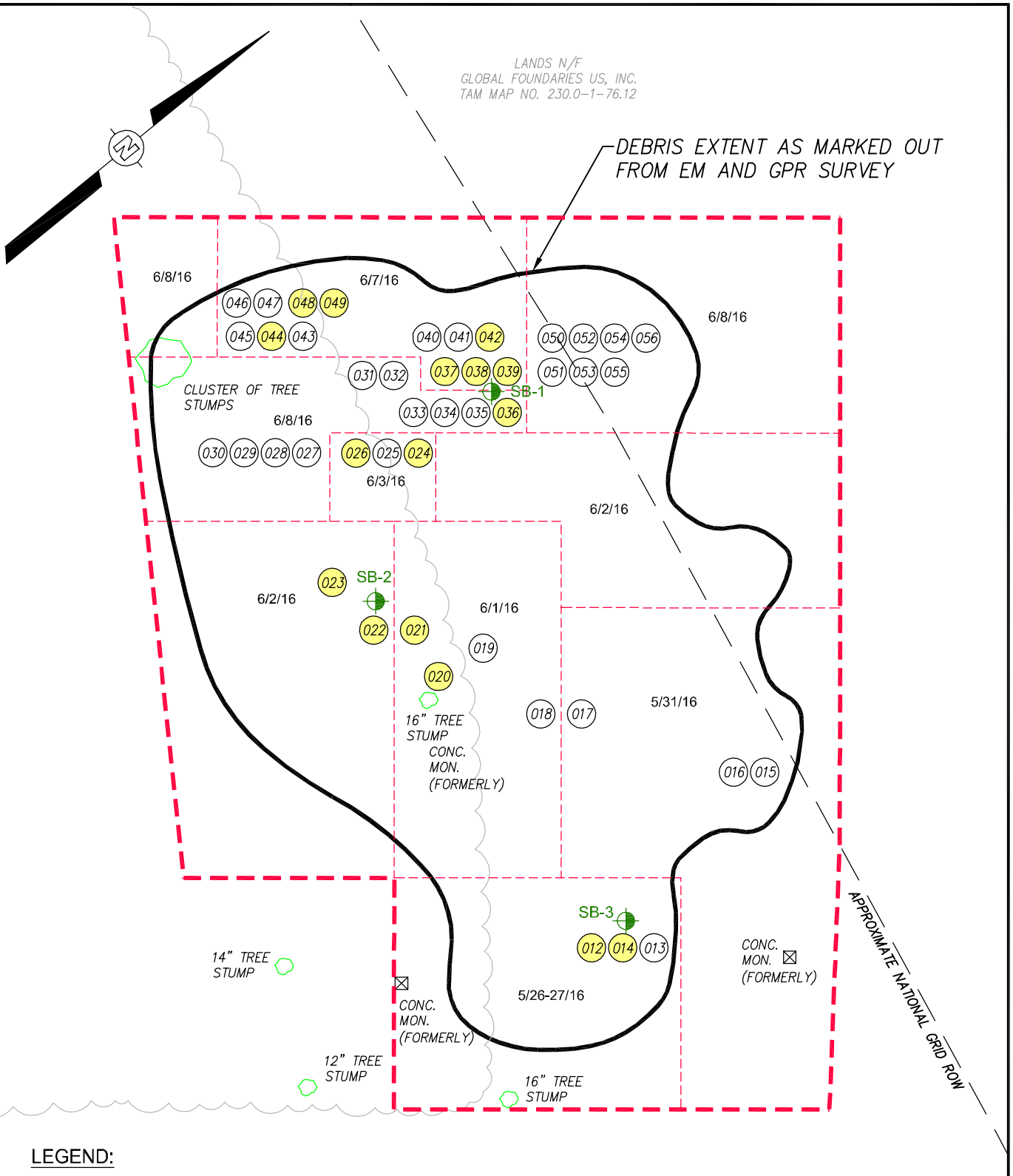
HORIZONTAL SCALE
10 5 0 10 20 30

CB&I Environmental & Infrastructure, Inc.

MALTA ROCKET FUEL AREA SITE
MALTA, NEW YORK

FIGURE 2
NORTHEAST DEBRIS AREA SURVEY

File: O:\Shaw Offices - CAD Files\Latham, NY\154035_Malta\154035-A5.dwg
User: greg.jones Oct 10, 2016 - 10:28am Layout: 22x34



LEGEND:

- DEBRIS REMOVAL AREA
- EXTENT OF EXCAVATION
- 013 — APPROXIMATE DRUM OR CONTAINER LOCATION
- 026 — DRUM OR CONTAINER HAD CONTENTS
- SB-1 — BORING LOCATION

SCALE

0 10 20 FEET

CB&I Environmental & Infrastructure, Inc.

MALTA ROCKET FUEL AREA SITE
MALTA, NEW YORK

FIGURE 3

DEBRIS REMOVAL AREA LOCATIONS

NORTHEAST DEBRIS AREA
MALTA ROCKET FUEL AREA SITE

OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Pittsburgh, PA	10/5/16	--	E. Schlegel	--	--	154035-A4

File: O:\Shaw Offices - CAD Files\Latham, NY\154035_Malta\154035-A4.dwg
Plot Date/Time: Oct 05, 2016 - 3:46pm
Plotted By: Evan.Schlegel
Xref:
Image

Attachment A

US Survey Report

Profiler Investigation Field Report

Client: CB&I
Job Site: 400 Stonebreak Rd. Ext, Malta, NY
Client Contact: Brian Neumann, Steve Meier
Survey Technician: Jose Tejada
Survey Date: 5-22-15

THE MAPS:

There are two map formats generated for this report that show the results of the Profiler Electromagnetic Induction Investigation carried out by Utility Survey Corp. at the above referenced job site.

Map Formats:

1. Google Earth Digital Maps (see separate "Google Earth" folder)
2. Color Contour Maps (see under "Field Report" below)

The maps were created from data collected by a Trimble Geo-7X GPS used in tandem with a GSSI Profiler EMP-400 electromagnetic induction instrument.

Both the Google Earth and the Color Contour maps are depictions of the same data.

Digital Files: Any digital files provided to our clients will be in a Google Earth (kmz) and/or AutoCAD (dxf) format depending on the project scope.

When opened on a computer, the Google Earth (kmz) files will depict georeferenced targets as an overlay over the project site.

For projects where AutoCAD (dxf) files are provided to the client, they can be used to update their existing AutoCAD files or create new ones.

It should be noted that neither these maps, nor any other maps, should be used as a substitute for in-field markings (i.e. paint/flags/stakes etc.) if intrusive activities such as excavations are being considered.

Job site field markings are the primary reference points but even then, hand-digging should always be carried out in the proximity of buried utilities.

PROJECT SCOPE:

The requirement was for Utility Survey Corp. to conduct a survey to detect for the presence of potential "targets of interest" such as buried containers and tanks, waste and contaminant extents, and other significant objects.

The survey was carried out with three types of technology specifically designed for this type of investigation as follows:

1. Electromagnetic Induction (EM)
2. Ground Penetrating Radar (GPR)
3. Ferro-Magnetic (FM).

THE METHODOLOGY:

Phase 1 - EM Area Scan: The first phase was to scan the designated survey area with a GSSI Georeferenced Profiler EMP-400 Electromagnetic Induction Instrument. The Profiler and previous generation technology of this nature are commonly referred to as EM instruments.

This first scanning phase generated georeferenced, colored, contour-type, data maps showing the location of potential targets of interest. These target areas were then investigated further in Phase 2 to try and determine their physical nature, approximate size, and depth.

Phase 2 - GPR & FM Localized Investigation: The second phase was to carry out a localized investigation of target areas of interest revealed during the Phase 1 Profiler scanning.

An intensive localized scanning was performed at each target area of interest using both GPR (Ground Penetrating Radar) and an FM instrument (Ferro-Magnetic Center-Mass Metal Detector).

The purpose of this second phase was to try and determine the nature of the targets shown on the maps generated by the Profiler scanning. The GPR is used to determine the approximate size and depth of potential targets.

The EM instrument was used to determine if targets are made of a ferrous metal such as is typically used in the manufacture of steel drums and underground storage tanks (USTs) etc.

Any target “seen” with the GPR that does not generate a tone when scanned with the FM instrument will be assumed to be of a non-ferrous nature.

THE TECHNOLOGY:

Primary Technology: The primary instrument used for this survey was the GSSI Profiler EMP-400. This is a powerful new generation Electromagnetic Induction Instrument with georeferencing GPS capability.

The Profiler has the benefit of GSSI's proprietary source cancellation and calibration technology to create the greatest signal stability available over any comparable instrument.

The Profiler's system structure, electronics and coils are designed for maximum structural and thermal stability. These key features minimize signal drift thereby maintaining an accurate zero level and system null across its full bandwidth range. The major advantage of this design is to overcome the signal drift problem that is common with other previous generation EM instruments.

Older EM-type instruments do not incorporate the advanced electronics and software controls employed in the Profiler. The Profiler can therefore be relied upon to produce superior data quality, which means more accurate results.

To obtain the highest level of georeferencing accuracy, Utility Survey Corp's Profiler is driven by a Trimble Geo-7X mobile GPS unit with 1 cm accuracy (i.e. plus or minus half-inch corrected*).

The procedure was to scan the target area with the Profiler in an x-y grid pattern. Data was collected by the Trimble Geo-7X GPS. The survey data was then downloaded into data processing software to generate georeferenced color contour maps.

<u>Typical Uses for The Profiler EMP-400 include:</u>

- Environmental remediation
- Utility/UST detection – metallic and non-metallic
- Archaeology

- Geological investigation
- Site assessment
- Ground water investigation
- Septic fields
- Agricultural research

Localized Investigation Technology - GPR: The major secondary instrument to be deployed as follow up to the Profiler scanning was the GSSI GPR UtilityScan cart system configured with a 270 MHz frequency antenna.

The 270 MHz antenna's lower frequency design provides for optimal depth of penetration and large size target detection. This is the preferred antenna of choice for when larger objects and features are required to be detected, such as underground storage tanks, drums, containers and contamination extents etc.

The target areas of interest generated from the Profiler survey were investigated with the GPR 270. The procedure was to criss-cross the target area in an x-y grid pattern. The GPR's on-board computer provided target data information in real time.

The UtilityScan cart is the industry standard Ground Penetrating Radar system for subsurface designation of many different target types. It is of a highly rugged construction yet extremely maneuverable allowing for efficient scanning of a variety of site environments. Another major feature of the UtilityScan is its ability to produce immediate, on-screen, target information.

<u>Typical Uses for The UtilityScan Include:</u>

- Utility/UST detection – metallic and non-metallic
- Environmental assessment
- Septic Fields
- Damage prevention
- Geological investigation

- Turf assessment
- Archaeology
- Forensics
- Road inspection

Localized Investigation Technology - FM: An additional secondary instrument was used in a supporting role to the GPR in the follow up to the Profiler scanning. This was a Ferro-Magnetic Center-Mass type instrument, commonly known as a box locator or metal detector.

Utility Survey Corp. utilizes several types of FM instruments such as the CST Magna Trak 102 and MetroTech 880B. These instruments are hand-held and highly portable. They are designed to detect ferrous metal-mass objects down to a depth of 15 feet depending on object size, environmental conditions, signal strength etc.

The procedure was to sweep the target area with the FM instrument in an x-y grid pattern. A tone will be generated when a ferrous metal-mass object is detected.

Georeferencing - GPS: All projects performed by Utility Survey Corp. where georeferenced (GPS) positioning of targets is required will be carried out with a portable Trimble Geo-7X GPS system of 1 cm accuracy corrected*.

For regular utility mapping surveys the Trimble is attached to a designator pole that is placed directly over each target to plot its long/lat point.

For Profiler surveys the Trimble is configured to take the place of the Profiler's standard GPS controller. This is to boost the Profiler up to a 1 cm level of accuracy (i.e. plus or minus approximately half-inch) as opposed to its standard operating sub-metre accuracy (i.e. plus or minus approximately three feet).

*_Corrected_ means that the collected GPS field data must be exported to an external satellite base-station data correction service for positional adjustment, or correction. The reason for this is that raw satellite data can be affected by potential errors such as shielding; i.e. tree canopies, high buildings etc. The Geo-7X accesses the highest number of satellites to record multiple date and time-stamped longitude and latitude coordinates. The correcting process correlates and adjusts the data to ensure our data files have the highest available level of accuracy.

THE FIELD REPORT:

Utility Survey Corp. technicians follow our proprietary 10-Step Protocols for all field survey work. This is a strict methodology designed to maximize accuracy and minimize risk in the detection and marking of buried utilities, objects, and features.

The 10- Step Protocols set out the locating procedure and equipment to be used as indicated on the Job Completion Form (JCF) signed off by the client at the conclusion of the field survey work.

The maps show different colored conductivity contours. These are typically red, yellow, blue etc. that stand out from a background of a different color. They are referred to as “hot-spots” and represent potential “targets” of potential interest.

This field report has detailed the equipment and methods of the survey and concludes with an opinion as to what nature the technician believes any detected targets of interest may be. For example, an opinion may be such as, “The target object is of a metal nature and has the approximate dimensions and depth that could be representative of a underground storage tank.” It is not possible, as no

such technology exists, to give any more definitive identifying information than this.

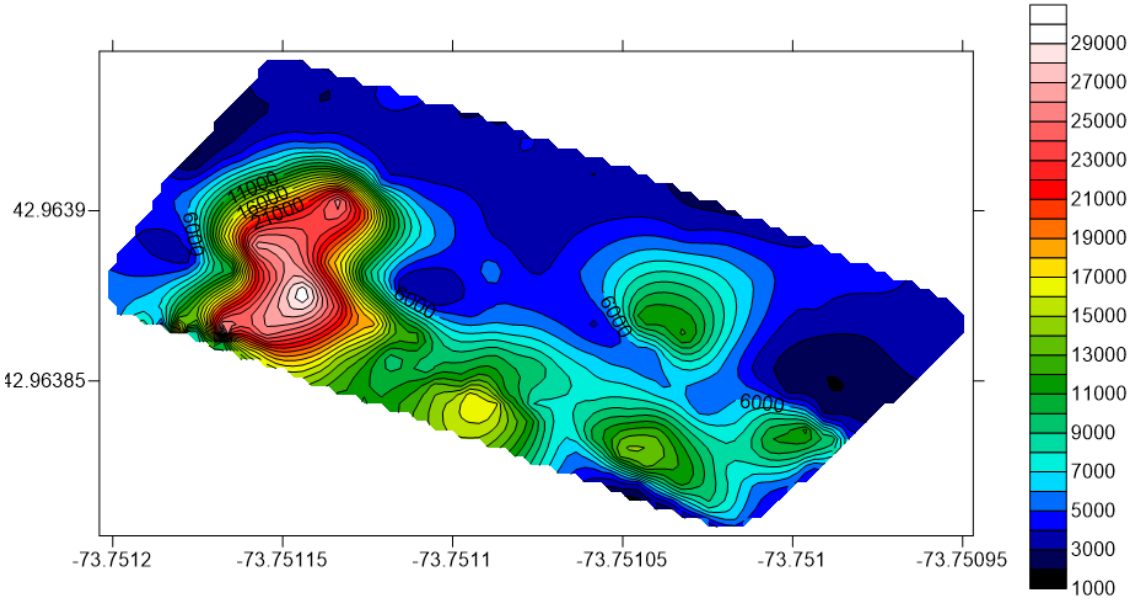
To obtain more of a positive verification of a target, the client would have to arrange for follow-up activities to be carried out such as excavation, soil borings, etc.

The purpose of the technician's opinion is to provide the client with as much helpful information as possible based upon his/her knowledge, experience, and training.

The Technician's Opinion For This Project Is:

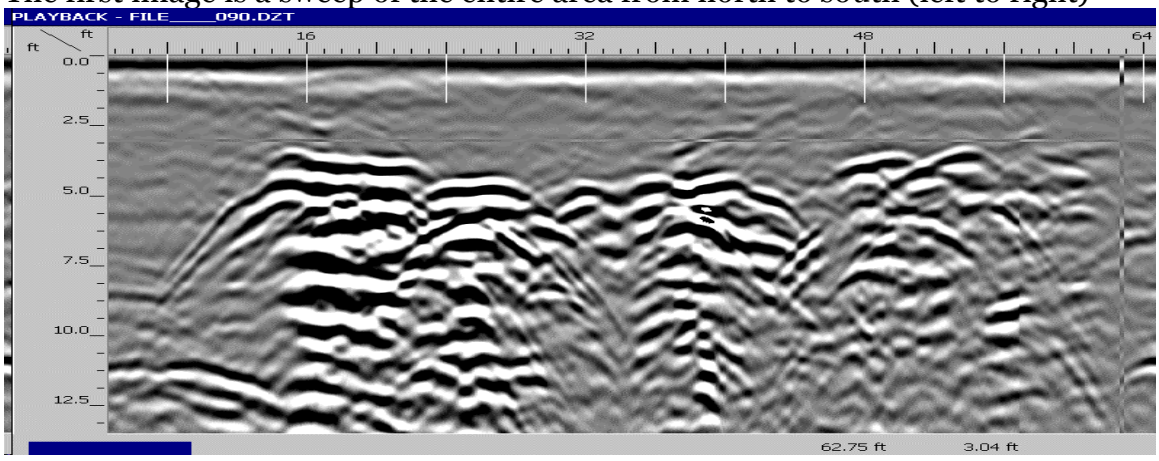
A GPR survey was performed prior to the EM Profiler Survey. The GPR survey revealed multiple subsurface anomalies in area. The area in which the subsurface anomalies were present was marked in purple paint and flags. A EM Profiler Survey was then performed to confirm the information received from the GPR survey. I believe the EM Profiler data received confirms the GPR data. The data received from the EM Profiler survey shows areas of high conductivity and other concentrations of subsurface materials in the area which coincide with the GPR data that was found. Below you will see imagery and color contour maps that show this data.

COLOR CONTOUR MAPS:

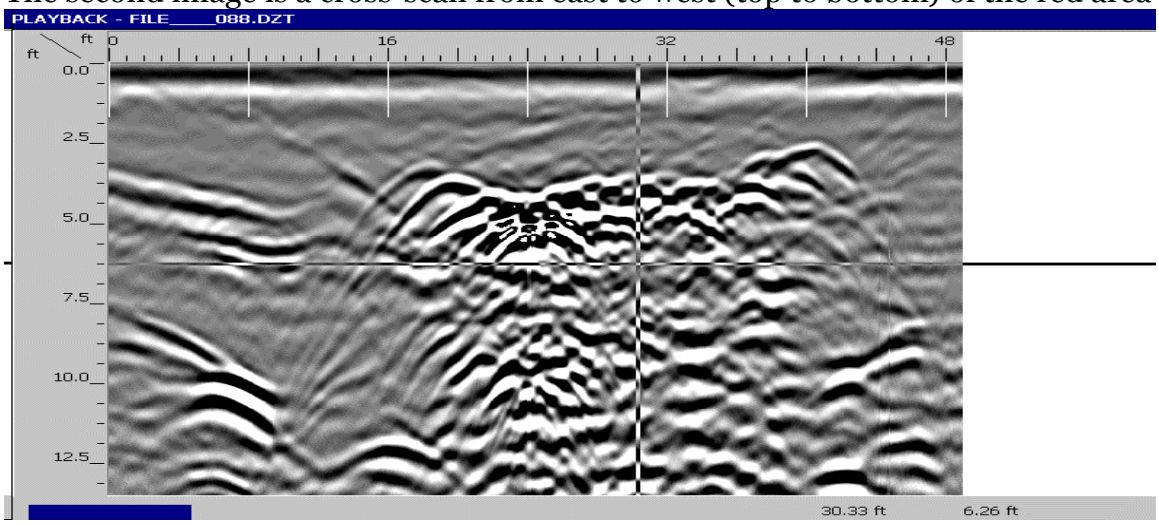


The above image shows the targeted area of interest revealed in the EM Profiler Survey. The area represented by the lighter blue, green, yellow, and red represent areas of interest. GPR of the area revealed subsurface metallic anomalies that coincide with this imagery. The higher (red) areas are believed to be concentrations of these subsurface materials. Two GPR images were provided below to show the GPR data received in the area.

The first image is a sweep of the entire area from north to south (left to right)



The second image is a cross-scan from east to west (top to bottom) of the red area



The EM Profiler survey contour map and the GPR data received confirm the suspicion of subsurface metallic anomalies in the area. Using GPR, in the field, I marked the identifiable boundary of the area in which the subsurface anomalies were present.

Thank you for choosing Utility Survey Corp. It was a pleasure working for you on this important project and I look forward to working for you again in the future.

If you have any questions, or require further information, please contact the office at 845-496-2550.

Sincerely,

Jose Tejada
Survey Technician

Attachment B

Photolog

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
B.Neumann

Date:
5/22/15

Direction:
South

Comments:
Utility Survey using GPR

Photographer:
B.Neumann

Date:
5/22/15

Direction:
Southwest

Comments:
Utility Survey using electromagnetic induction

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
B.Neumann

Date:
5/22/15

Direction:
Northwest

Comments:
Northeast boundary of debris area. Utility pole to right out of photograph. GlobalFoundries parking lot on hill in background.

Photographer:
B.Neumann

Date:
5/22/15

Direction:
Northeast

Comments:
Northeast debris area between utility pole and shrubs. Area has not grass growing in photo.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
B.Neumann

Date:
10/23/15

Direction:
Southeast

Comments:
Overpacked drum debris removed from Northeast Debris Area in May 2014. CBI sampled the overpacked material this day, 10/23/15.

Photographer:
OpTech

Date:
10/23/16

Direction:
Down

Comments:
OpTech sample technician monitoring inside drum (CS-LF010), contained within overpack.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
5/27/16

Direction:
Down

Comments:
55-gallon, steel drum LF012. Soil/sludge inside, sample labelled CS-LF012.

Photographer:
HEPACO tech

Date:
5/27/16

Direction:
Down

Comments:
55-gallon, steel drum LF013. Drum empty.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
5/27/16

Direction:
Down

Comments:
55-gallon, steel drum LF014. Greenish oily liquid inside, sample labelled CS-LF014. Once drum removed oily liquid soil excavated and staged for sampling.

Photographer:
HEPACO tech

Date:
5/31/16

Direction:
Down

Comments:
55-gallon, steel drum LF015. Drum empty.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
5/31/16

Direction:
East

Comments:
55-gallon, steel drum LF016. Drum empty.

Photographer:
HEPACO tech

Date:
5/31/16

Direction:
Down

Comments:
Plastic sheeting found in area around and under empty drums LF015 and LF016. Soil under drums was impacted and subsequently excavated and staged with other impacted soil.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/1/16

Direction:
Down

Comments:
LF019 area contained six mangled, empty drums and two, 5-gallon empty pails. The one drum had a MEK/anti-freeze label.

Photographer:
HEPACO tech

Date:
6/1/16

Direction:
Down

Comments:
55-gallon, steel drum LF020. Soil/sludge inside, sample labelled CS-LF020.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/1/16

Direction:
Down

Comments:
55-gallon, stainless steel drum LF021. Clear solvent like liquid inside, sample labelled CS-LF021.

Photographer:
HEPACO tech

Date:
6/1/16

Direction:
Down

Comments:
55-gallon, stainless steel drum LF021. Yellow letter stencil reads “ACETONE”. Red lettering reads “FROM PRIM.FILT.C 1-14-53

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/2/16

Direction:
Down

Comments:
55-gallon, steel drum LF022 (upright drum is LF021). Soil/sludge inside, sample labelled CS-LF022.

Photographer:
HEPACO

Date:
6/2/16

Direction:
Down

Comments:
End of 55-gallon, steel drum LF022. Black stenciled lettering may read "BORON TRIFLUORIDE". Red painted lettering looks like random lettering, not words.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/2/16

Direction:
Down

Comments:
55-gallon, steel drum LF023. Soil/sludge inside, sample labelled CS-LF023.

Photographer:
HEPACO tech

Date:
6/3/16

Direction:
Southeast

Comments:
55-gallon, steel drum LF024. Lt brown solvent like liquid inside, sample labelled CS-LF024.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/3/16

Direction:
Down

Comments:
55-gallon, steel drum carcass LF025. Drum empty

Photographer:
HEPACO tech

Date:
6/3/16

Direction:
Down

Comments:
55-gallon, steel drum LF026. Greenish oily liquid inside, sample labelled CS-LF026.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, steel drum LF027. Drum empty. Bung cap on side gone.

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Southeast

Comments:
55-gallon, steel drum LF028. Drum empty. Hole at ring above side bung cap and to the left.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, steel drum LF029. Drum empty. Hole at ring.

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, steel drum LF030. Drum empty.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tich

Date:
6/6/16

Direction:
North

Comments:
Excavator removing empty drum LF031.

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, steel drum LF032. Drum empty. Triangular shaped hole on top.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, stainless steel drum LF033. Drum empty. Bung cap gone.

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, steel drum LF034. Drum empty. Hole cut on top in past.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, steel drum LF035. Drum empty.

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, steel drum LF036. Large circular hole on side. Lt brown solvent like liquid inside, sample labelled CS-LF036.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, steel drum LF036. The numbers “5-3” painted in red on end of drum.

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, steel drum LF037. Lt brown solvent like liquid inside, sample labelled CS-LF037.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, steel drum LF038. Small hole at bottom band. Clear to brown solvent like liquid inside, sample labelled CS-LF038

Photographer:
HEPACO tech

Date:
6/6/16

Direction:
Down

Comments:
55-gallon, steel drum LF039. Lt brown solvent like liquid inside, sample labelled CS-LF039.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/7/16

Direction:
Down

Comments:
55-gallon, steel drum LF040. Drum empty. Wording “4-6” and “ETHER” painted red on end of drum.

Photographer:
HEPACO tech

Date:
6/7/16

Direction:
Down

Comments:
55-gallon, steel drum LF041. Drum empty. Hole in top. Red wording visible on end but not legible.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/7/16

Direction:
Northeast

Comments:
55-gallon, steel drum LF042. Lt brown solvent like liquid inside, sample labelled CS-LF042.

Photographer:
HEPACO tech

Date:
6/7/16

Direction:
Down

Comments:
55-gallon, steel drum LF043. Drum empty. Hole on side.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/7/16

Direction:
Down

Comments:
End of 55-gallon, steel drum LF044. Drum empty. Black stenciled lettering may read “BORON TRIFLUORIDE”. Red painted lettering looks like random letters and numbers, not words.

Photographer:
HEPACO tech

Date:
6/7/16

Direction:
Down

Comments:
55-gallon, steel drum LF045. Drum empty. Rusted opening in top.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/7/16

Direction:
Down

Comments:
Various sized stainless steel cylinders with holes penetrating them. Total of 20 placed in container labelled LF046.

Photographer:
HEPACO tech

Date:
6/7/16

Direction:
Down

Comments:
Various sized stainless steel cylinders with no holes. Total of 14 placed in three containers labelled LF047. One of two paint sized cans sampled in composite CS-LF048-049.

CB&I
Photographic Record

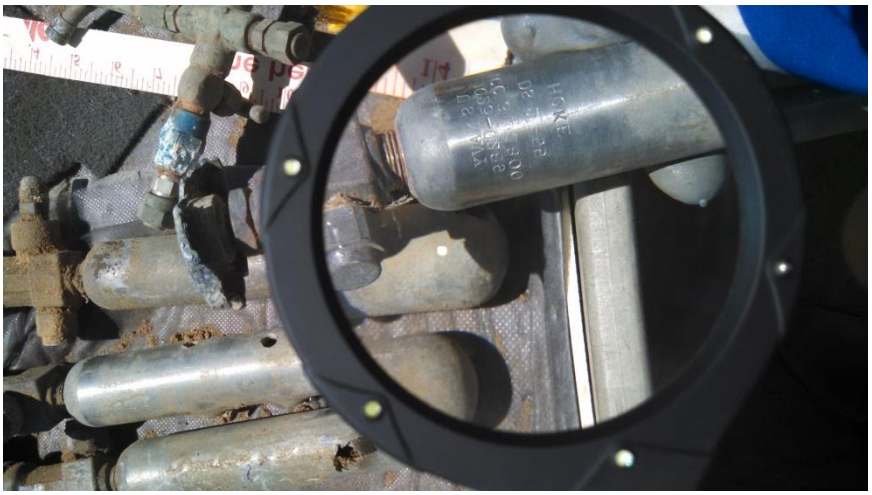
Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
B.Neumann

Date:
6/13/16

Direction:
Down

Comments:
EPA/Veolia (Navy contractor) inspection of cylinders with holes. All have US NAVY and other identifying marking stamped on them.



Photographer:
HEPACO tech

Date:
6/8/16

Direction:
Down

Comments:
55-gallon, steel drum LF050. Drum empty. Bung port plug gone.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/8/16

Direction:
Down

Comments:
55-gallon, steel drum LF051. Drum empty. Opening in side.

Photographer:
HEPACO tech

Date:
6/8/16

Direction:
Down

Comments:
55-gallon, steel drum LF052. Drum empty and mangled. None legible paint markings on end.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/8/16

Direction:
Down

Comments:
55-gallon, steel drum LF053. Drum empty.

Photographer:
HEPACO tech

Date:
6/8/16

Direction:
Down

55-gallon, steel drum LF054. Drum empty.

CB&I
Photographic Record

Customer: LFTCEDC and GE	**Project Number: 155446 and 154035**
Site Name: MRFA Northeast Debris Area	**Site Location: Malta, NY**

Photographer:
HEPACO tech

Date:
6/8/16

Direction:
Down

Comments:
Empty 55-gallon, steel drum LF055 in middle. Drum LF056 to the left and empty. Drum LF053 to right.

Photographer:
B.Neumann

Date:
6/10/16

Direction:
Southwest

Comments:
Waste staging area. Empty metal drum remnants to right.

Attachment C

October 2015 Lab Results

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

November 6, 2015

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Revised Report - 11/6/2015 1:47:27 PM - See workorder comment section for explanation

Project Name:	**2015-RUSH 3-DAY TAT MALTA, NY**	Workorder:	**2103851**
Purchase Order:	**962015**	Workorder ID:	**CBR004|GE MRFA 154035-04000000**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Saturday, October 24, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2103851001	CS-LF010	Solid	10/23/2015 12:25	10/24/2015 09:10	Collected by Client
2103851002	CS-LF008	Solid	10/23/2015 12:30	10/24/2015 09:10	Collected by Client
2103851003	CS-LF009	Solid	10/23/2015 12:40	10/24/2015 09:10	Collected by Client
2103851004	CS-LF006	Solid	10/23/2015 12:50	10/24/2015 09:10	Collected by Client
2103851005	CS-LF005	Solid	10/23/2015 13:00	10/24/2015 09:10	Collected by Client
2103851006	CS-LF011	Solid	10/23/2015 13:08	10/24/2015 09:10	Collected by Client
2103851007	CS-LF004	Solid	10/23/2015 13:15	10/24/2015 09:10	Collected by Client
2103851008	CS-LF003	Solid	10/23/2015 13:22	10/24/2015 09:10	Collected by Client
2103851009	CS-LF007	Solid	10/23/2015 13:30	10/24/2015 09:10	Collected by Client
2103851010	CS-DUP1	Solid	10/23/2015 12:45	10/24/2015 09:10	Collected by Client

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SAMPLE SUMMARY

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Sample Comments

Lab ID: 2103851001 **Sample ID:** CS-LF010 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8082 PCB analysis due to sample matrix interference. Reporting limits were adjusted accordingly.
This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2103851004 **Sample ID:** CS-LF006 **Sample Type:** SAMPLE

One or more of the matrix spike compounds for the EPA 8270 analysis were recovered outside of the quality control limits due to sample matrix interferences. The LCS sample associated to this sample was within control limits.

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851001** Date Collected: 10/23/2015 12:25 Matrix: Solid

Sample ID: **CS-LF010** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	14.4 U	U	ug/kg	14.4	6.6	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Benzene	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Bromochloromethane	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Bromodichloromethane	2.9 U	U	ug/kg	2.9	1.0	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Bromoform	2.9 U	U	ug/kg	2.9	0.75	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Bromomethane	2.9 U	U	ug/kg	2.9	0.75	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
2-Butanone	14.4 U	U1	ug/kg	14.4	4.6	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Carbon Disulfide	2.9 U	U	ug/kg	2.9	0.91	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Carbon Tetrachloride	2.9 U	U	ug/kg	2.9	0.74	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Chlorobenzene	2.9 U	U	ug/kg	2.9	0.74	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Chlorodibromomethane	2.9 U	U	ug/kg	2.9	0.98	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Chloroethane	7.2 U	U	ug/kg	7.2	1.2	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Chloroform	2.9 U	U	ug/kg	2.9	0.76	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Chloromethane	2.9 U	U	ug/kg	2.9	0.79	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Cyclohexane	2.9 U	U	ug/kg	2.9	0.74	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,2-Dibromo-3-chloropropane	7.2 U	U	ug/kg	7.2	4.2	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,2-Dibromoethane	2.9 U	U	ug/kg	2.9	0.78	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,2-Dichlorobenzene	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,3-Dichlorobenzene	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,4-Dichlorobenzene	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Dichlorodifluoromethane	2.9 U	U	ug/kg	2.9	0.97	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,1-Dichloroethane	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,2-Dichloroethane	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,1-Dichloroethene	2.9 U	U	ug/kg	2.9	0.75	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
cis-1,2-Dichloroethene	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
trans-1,2-Dichloroethene	2.9 U	U	ug/kg	2.9	0.75	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,2-Dichloropropane	2.9 U	U	ug/kg	2.9	0.87	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
cis-1,3-Dichloropropene	2.9 U	U	ug/kg	2.9	0.79	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
trans-1,3-Dichloropropene	2.9 U	U	ug/kg	2.9	0.84	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,4-Dioxane	108 U	U	ug/kg	108	25.7	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Ethylbenzene	2.9 U	U	ug/kg	2.9	0.98	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Freon 113	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
2-Hexanone	14.4 U	U2	ug/kg	14.4	4.0	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Isopropylbenzene	2.9 U	U	ug/kg	2.9	0.88	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Methyl acetate	2.9 U	U	ug/kg	2.9	0.85	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Methyl cyclohexane	2.9 U	U	ug/kg	2.9	0.81	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851001** Date Collected: 10/23/2015 12:25 Matrix: Solid

Sample ID: **CS-LF010** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
4-Methyl-2-Pentanone(MIBK)	14.4 U	U	ug/kg	14.4	5.5	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Methylene Chloride	20.1		ug/kg	2.9	1.1	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Styrene	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,1,2,2-Tetrachloroethane	2.9 U	U	ug/kg	2.9	0.81	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Tetrachloroethene	2.9 U	U	ug/kg	2.9	0.87	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Toluene	2.9 U	U	ug/kg	2.9	0.97	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,2,3-Trichlorobenzene	7.2 U	U	ug/kg	7.2	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,2,4-Trichlorobenzene	1.6J	J	ug/kg	7.2	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,1,1-Trichloroethane	2.9 U	U	ug/kg	2.9	0.89	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
1,1,2-Trichloroethane	2.9 U	U	ug/kg	2.9	0.81	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Trichloroethene	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Trichlorofluoromethane	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Vinyl Chloride	2.9 U	U	ug/kg	2.9	0.72	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
o-Xylene	2.9 U	U	ug/kg	2.9	0.84	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
mp-Xylene	5.8 U	U	ug/kg	5.8	1.2	SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	112		%	56 - 124		SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
4-Bromofluorobenzene (S)	97.3		%	51 - 128		SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Dibromofluoromethane (S)	104		%	62 - 123		SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
Toluene-d8 (S)	104		%	59 - 131		SW846 8260C	10/24/15	TMP	10/27/15 16:33	TMP	A2
SEMIVOLATILES											
Acenaphthene	109 U	U	ug/kg	109	16.3	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Acenaphthylene	109 U	U	ug/kg	109	12.0	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Acetophenone	109 U	U	ug/kg	109	10.9	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Aniline	294 U	U	ug/kg	294	150	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Anthracene	109 U	U	ug/kg	109	10.9	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Atrazine	109 U	U	ug/kg	109	28.3	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Benzaldehyde	294 U	U	ug/kg	294	45.7	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Benzidine	871 U	U	ug/kg	871	429	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Benzo(a)anthracene	109 U	U	ug/kg	109	16.3	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Benzo(a)pyrene	109 U	U	ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Benzo(b)fluoranthene	109 U	U	ug/kg	109	26.1	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Benzo(g,h,i)perylene	109 U	U	ug/kg	109	22.9	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Benzoic acid	588 U	U	ug/kg	588	133	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Benzo(k)fluoranthene	109 U	U	ug/kg	109	20.7	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Benzyl Alcohol	294 U	U	ug/kg	294	100	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851001** Date Collected: 10/23/2015 12:25 Matrix: Solid

Sample ID: **CS-LF010** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Biphenyl	741		ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
4-Bromophenyl-phenylether	109 U	U	ug/kg	109	25.0	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Butylbenzylphthalate	109 U	U	ug/kg	109	28.3	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Caprolactam	294 U	U	ug/kg	294	79.5	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Carbazole	109 U	U	ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
4-Chloro-3-methylphenol	294 U	U	ug/kg	294	16.3	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
4-Chloroaniline	294 U	U	ug/kg	294	146	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
bis(2-Chloroethoxy)methane	109 U	U	ug/kg	109	16.3	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
bis(2-Chloroethyl)ether	109 U	U	ug/kg	109	21.8	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
bis(2-Chloroisopropyl)ether	109 U	U	ug/kg	109	27.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2-Chloronaphthalene	109 U	U	ug/kg	109	15.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2-Chlorophenol	294 U	U	ug/kg	294	19.6	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
4-Chlorophenyl-phenylether	109 U	U	ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Chrysene	109 U	U	ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
mp-Cresol	294 U	U	ug/kg	294	16.3	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
o-Cresol	294 U	U	ug/kg	294	24.0	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Di-n-Butylphthalate	109 U	U	ug/kg	109	16.3	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Di-n-Octylphthalate	294 U	U	ug/kg	294	42.5	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Dibenzo(a,h)anthracene	109 U	U	ug/kg	109	13.1	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Dibenzofuran	857		ug/kg	109	12.0	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
1,2-Dichlorobenzene	109 U	U	ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
1,3-Dichlorobenzene	109 U	U	ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
1,4-Dichlorobenzene	109 U	U	ug/kg	109	18.5	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
3,3-Dichlorobenzidine	163 U	U	ug/kg	163	76.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2,4-Dichlorophenol	218 U	U	ug/kg	218	19.6	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2,6-Dichlorophenol	294 U	U	ug/kg	294	25.0	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Diethylphthalate	109 U	U	ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Dimethoate	294 U	U	ug/kg	294	15.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2,4-Dimethylphenol	294 U	U	ug/kg	294	83.8	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Dimethylphthalate	109 U	U	ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
1,2-Dinitrobenzene	109 U	U	ug/kg	109	26.1	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
1,4-Dinitrobenzene	109 U	U	ug/kg	109	25.0	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2,4-Dinitrophenol	218 U	U	ug/kg	218	69.7	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2,4-Dinitrotoluene	109 U	U	ug/kg	109	31.6	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2,6-Dinitrotoluene	109 U	U	ug/kg	109	26.1	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Diphenylamine	109 U	U	ug/kg	109	15.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
1,2-Diphenylhydrazine	109 U	U	ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
bis(2-Ethylhexyl)phthalate	109 U	U	ug/kg	109	25.0	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851001** Date Collected: 10/23/2015 12:25 Matrix: Solid

Sample ID: **CS-LF010** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Fluoranthene	109 U	U	ug/kg	109	20.7	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Fluorene	719		ug/kg	109	21.8	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Hexachlorobenzene	109 U	U	ug/kg	109	20.7	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Hexachlorobutadiene	109 U	U	ug/kg	109	28.3	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Hexachlorocyclopentadiene	294 U	U	ug/kg	294	94.7	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Hexachloroethane	109 U	U	ug/kg	109	18.5	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Indeno(1,2,3-cd)pyrene	109 U	U	ug/kg	109	19.6	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Isophorone	109 U	U	ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2-Methyl-4,6-dinitrophenol	294 U	U	ug/kg	294	63.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2-Methylnaphthalene	937		ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2-Naphthylamine	294 U	U	ug/kg	294	71.9	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Naphthalene	58.6J	J	ug/kg	109	26.1	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2-Nitroaniline	294 U	U	ug/kg	294	142	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
3-Nitroaniline	392 U	U	ug/kg	392	193	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
4-Nitroaniline	305 U	U	ug/kg	305	152	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Nitrobenzene	109 U	U	ug/kg	109	22.9	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2-Nitrophenol	294 U	U	ug/kg	294	29.4	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
4-Nitrophenol	294 U	U	ug/kg	294	110	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
N-Nitrosodi-n-butylamine	109 U	U	ug/kg	109	25.0	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
N-Nitrosodiethylamine	109 U	U	ug/kg	109	21.8	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
N-Nitrosodimethylamine	109 U	U	ug/kg	109	39.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
N-Nitroso-di-n-propylamine	109 U	U	ug/kg	109	18.5	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
N-Nitrosodiphenylamine	109 U	U	ug/kg	109	18.5	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
N-Nitrosopyrrolidine	109 U	U	ug/kg	109	20.7	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Pentachlorobenzene	109 U	U	ug/kg	109	26.1	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Pentachlorophenol	218 U	U	ug/kg	218	39.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Phenanthrene	208		ug/kg	109	15.2	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Phenol	294 U	U	ug/kg	294	16.3	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Pyrene	109 U	U	ug/kg	109	19.6	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Pyridine	294 U	U	ug/kg	294	26.1	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Resorcinol	109 U	U	ug/kg	109	25.0	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
1,2,4,5-Tetrachlorobenzene	109 U	U	ug/kg	109	16.3	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2,3,4,6-Tetrachlorophenol	294 U	U	ug/kg	294	22.9	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
1,2,4-Trichlorobenzene	109 U	U	ug/kg	109	25.0	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2,4,5-Trichlorophenol	294 U	U	ug/kg	294	21.8	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2,4,6-Trichlorophenol	218 U	U	ug/kg	218	21.8	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	70.1		%	37 - 123	SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851001** Date Collected: 10/23/2015 12:25 Matrix: Solid

Sample ID: **CS-LF010** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	60.5		%	45 - 105		SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
2-Fluorophenol (S)	59.5		%	35 - 104		SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Nitrobenzene-d5 (S)	60.2		%	41 - 110		SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Phenol-d5 (S)	60.6		%	40 - 100		SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
Terphenyl-d14 (S)	66.4		%	38 - 113		SW846 8270D	10/26/15	BS	10/27/15 18:22	CGS	A
PCBs											
Total Polychlorinated Biphenyl	0.71 U	U	mg/kg	0.71	0.71	SW846 8082A	10/26/15	BS	10/27/15 09:20	EGO	A
Aroclor-1016	0.71 U	U	mg/kg	0.71	0.13	SW846 8082A	10/26/15	BS	10/27/15 09:20	EGO	A
Aroclor-1221	0.71 U	U	mg/kg	0.71	0.065	SW846 8082A	10/26/15	BS	10/27/15 09:20	EGO	A
Aroclor-1232	0.71 U	U	mg/kg	0.71	0.13	SW846 8082A	10/26/15	BS	10/27/15 09:20	EGO	A
Aroclor-1242	0.71 U	U	mg/kg	0.71	0.19	SW846 8082A	10/26/15	BS	10/27/15 09:20	EGO	A
Aroclor-1248	0.71 U	U	mg/kg	0.71	0.13	SW846 8082A	10/26/15	BS	10/27/15 09:20	EGO	A
Aroclor-1254	0.71 U	U	mg/kg	0.71	0.13	SW846 8082A	10/26/15	BS	10/27/15 09:20	EGO	A
Aroclor-1260	0.71 U	U	mg/kg	0.71	0.13	SW846 8082A	10/26/15	BS	10/27/15 09:20	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	83.6		%	46 - 120		SW846 8082A	10/26/15	BS	10/27/15 09:20	EGO	A
Tetrachloro-m-xylene (S)	54.5		%	52 - 115		SW846 8082A	10/26/15	BS	10/27/15 09:20	EGO	A
PESTICIDES											
Aldrin	9.2 U	U	ug/kg	9.2	3.0	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
alpha-BHC	9.2 U	U	ug/kg	9.2	0.81	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
beta-BHC	9.2 U	U	ug/kg	9.2	0.97	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
delta-BHC	9.2 U	U	ug/kg	9.2	0.70	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
gamma-BHC	9.2 U	U	ug/kg	9.2	0.76	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
alpha-Chlordane	9.2 U	U	ug/kg	9.2	0.97	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
gamma-Chlordane	9.2 U	U	ug/kg	9.2	1.6	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
4,4'-DDD	17.8 U	U	ug/kg	17.8	1.5	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
4,4'-DDE	17.8 U	U	ug/kg	17.8	2.4	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
4,4'-DDT	17.8 U	U	ug/kg	17.8	2.1	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Dieldrin	17.8 U	U	ug/kg	17.8	2.1	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Endosulfan I	9.2 U	U	ug/kg	9.2	1.1	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Endosulfan II	17.8 U	U	ug/kg	17.8	3.7	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Endosulfan Sulfate	17.8 U	U	ug/kg	17.8	1.2	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Endrin	17.8 U	U	ug/kg	17.8	1.3	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Endrin Aldehyde	17.8 U	U	ug/kg	17.8	1.9	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Endrin Ketone	17.8 U	U	ug/kg	17.8	2.5	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Heptachlor	9.2 U	U	ug/kg	9.2	0.92	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851001** Date Collected: 10/23/2015 12:25 Matrix: Solid
Sample ID: **CS-LF010** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Heptachlor Epoxide	9.2 U	U	ug/kg	9.2	0.92	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Methoxychlor	17.8 U	U	ug/kg	17.8	2.4	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Toxaphene	189 U	U	ug/kg	189	31.4	SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	73.3		%	30 - 135		SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
Tetrachloro-m-xylene (S)	30.8		%	30 - 111		SW846 8081B	10/26/15	BS	10/28/15 11:06	RWS	A
HERBICIDES											
2,4-D	73.9 U	U	ug/kg	73.9	28.7	SW846 8151A	10/26/15	RMP	10/28/15 11:03	KJH	A
2,4-DB	73.9 U	U	ug/kg	73.9	39.7	SW846 8151A	10/26/15	RMP	10/28/15 11:03	KJH	A
Dalapon	73.9 U	U	ug/kg	73.9	18.8	SW846 8151A	10/26/15	RMP	10/28/15 11:03	KJH	A
Dicamba	73.9 U	U	ug/kg	73.9	26.5	SW846 8151A	10/26/15	RMP	10/28/15 11:03	KJH	A
Dichloroprop	73.9 U	U	ug/kg	73.9	29.8	SW846 8151A	10/26/15	RMP	10/28/15 11:03	KJH	A
Dinoseb	184 U	U	ug/kg	184	37.5	SW846 8151A	10/26/15	RMP	10/28/15 11:03	KJH	A
4-Nitrophenol	73.9 U	U	ug/kg	73.9	25.4	SW846 8151A	10/26/15	RMP	10/28/15 11:03	KJH	A
2,4,5-T	73.9 U	U	ug/kg	73.9	30.9	SW846 8151A	10/26/15	RMP	10/28/15 11:03	KJH	A
2,4,5-TP	73.9 U	U	ug/kg	73.9	34.2	SW846 8151A	10/26/15	RMP	10/28/15 11:03	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	86		%	30 - 153		SW846 8151A	10/26/15	RMP	10/28/15 11:03	KJH	A
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	11/4/15	MLM	11/5/15 07:34	LJF	A
Hexavalent Chromium	2.2 U	U	mg/kg	2.2	0.42	SW846 7196A	10/27/15	MLM	10/28/15 15:00	MLM	A
Ignitability	not ignitable	3				SW846 1030			11/6/15 10:00	BPC	A
Moisture	10		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	B
Sulfide, Reactive	4.4J	J	ppm	6.2	1.2	SW846 7.3	11/4/15	MLM	11/5/15 19:00	MLM	A
Total Solids	90.0		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	B
METALS											
Aluminum, Total	7590		mg/kg	10.1	3.4	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Antimony, Total	2.0 U	U	mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Arsenic, Total	1.2J	J	mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Barium, Total	21.1		mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Beryllium, Total	1.0 U	U	mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Cadmium, Total	0.50 U	U	mg/kg	0.50	0.17	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Calcium, Total	274		mg/kg	10.1	3.4	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Chromium, Total	7.1		mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Cobalt, Total	5.0		mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851001** Date Collected: 10/23/2015 12:25 Matrix: Solid

Sample ID: **CS-LF010** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Copper, Total	9.1		mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Iron, Total	12200		mg/kg	10.1	3.4	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Lead, Total	3.5		mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Magnesium, Total	1400		mg/kg	10.1	3.4	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Manganese, Total	208		mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Mercury, Total	3.3		mg/kg	0.27	0.087	SW846 7471B	10/28/15	MNP	10/28/15 14:50	MNP	A2
Nickel, Total	11.0		mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Potassium, Total	213		mg/kg	50.5	16.9	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Selenium, Total	5.0 U	U	mg/kg	5.0	1.7	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Silver, Total	0.50 U	U	mg/kg	0.50	0.17	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Sodium, Total	35.2J	J	mg/kg	50.5	16.9	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Thallium, Total	3.0 U	U	mg/kg	3.0	1.0	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Vanadium, Total	14.6		mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1
Zinc, Total	27.4		mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:08	TSS	A1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851002** Date Collected: 10/23/2015 12:30 Matrix: Solid

Sample ID: **CS-LF008** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	11.7 U	U	ug/kg	11.7	5.4	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Benzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Bromochloromethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Bromodichloromethane	2.3 U	U	ug/kg	2.3	0.83	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Bromoform	2.3 U	U	ug/kg	2.3	0.61	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Bromomethane	2.3 U	U	ug/kg	2.3	0.61	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
2-Butanone	11.7 U	U1	ug/kg	11.7	3.7	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Carbon Disulfide	2.3 U	U	ug/kg	2.3	0.74	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Carbon Tetrachloride	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Chlorobenzene	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Chlorodibromomethane	2.3 U	U	ug/kg	2.3	0.80	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Chloroethane	5.8 U	U	ug/kg	5.8	0.99	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Chloroform	2.3 U	U	ug/kg	2.3	0.62	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Chloromethane	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Cyclohexane	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,2-Dibromo-3-chloropropane	5.8 U	U	ug/kg	5.8	3.4	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,2-Dibromoethane	2.3 U	U	ug/kg	2.3	0.63	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,2-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,3-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,4-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Dichlorodifluoromethane	2.3 U	U	ug/kg	2.3	0.78	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,1-Dichloroethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,2-Dichloroethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,1-Dichloroethene	2.3 U	U	ug/kg	2.3	0.61	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
cis-1,2-Dichloroethene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
trans-1,2-Dichloroethene	2.3 U	U	ug/kg	2.3	0.61	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,2-Dichloropropane	2.3 U	U	ug/kg	2.3	0.70	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
cis-1,3-Dichloropropene	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
trans-1,3-Dichloropropene	2.3 U	U	ug/kg	2.3	0.68	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,4-Dioxane	87.7 U	U	ug/kg	87.7	20.8	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Ethylbenzene	2.3 U	U	ug/kg	2.3	0.80	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Freon 113	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
2-Hexanone	11.7 U	U2	ug/kg	11.7	3.3	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Isopropylbenzene	2.3 U	U	ug/kg	2.3	0.71	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Methyl acetate	2.3 U	U	ug/kg	2.3	0.69	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Methyl cyclohexane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851002** Date Collected: 10/23/2015 12:30 Matrix: Solid

Sample ID: **CS-LF008** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
4-Methyl-2-Pentanone(MIBK)	11.7 U	U	ug/kg	11.7	4.4	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Methylene Chloride	17.4		ug/kg	2.3	0.91	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Styrene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,1,2,2-Tetrachloroethane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Tetrachloroethene	2.3 U	U	ug/kg	2.3	0.70	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Toluene	2.3 U	U	ug/kg	2.3	0.78	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,2,3-Trichlorobenzene	5.8 U	U	ug/kg	5.8	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,2,4-Trichlorobenzene	5.8 U	U	ug/kg	5.8	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,1,1-Trichloroethane	2.3 U	U	ug/kg	2.3	0.73	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
1,1,2-Trichloroethane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Trichloroethene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Trichlorofluoromethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Vinyl Chloride	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
o-Xylene	2.3 U	U	ug/kg	2.3	0.68	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
mp-Xylene	4.7 U	U	ug/kg	4.7	0.97	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	101		%	56 - 124	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
4-Bromofluorobenzene (S)	96.2		%	51 - 128	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Dibromofluoromethane (S)	99.2		%	62 - 123	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2
Toluene-d8 (S)	106		%	59 - 131	SW846 8260C	10/24/15	TMP	10/27/15 16:56	TMP	A2

SEMIVOLATILES

Acenaphthene	115 U	U	ug/kg	115	17.2	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Acenaphthylene	115 U	U	ug/kg	115	12.6	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Acetophenone	115 U	U	ug/kg	115	11.5	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Aniline	310 U	U	ug/kg	310	159	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Anthracene	115 U	U	ug/kg	115	11.5	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Atrazine	115 U	U	ug/kg	115	29.9	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Benzaldehyde	310 U	U	ug/kg	310	48.3	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Benzidine	919 U	U	ug/kg	919	453	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Benzo(a)anthracene	115 U	U	ug/kg	115	17.2	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Benzo(a)pyrene	115 U	U	ug/kg	115	18.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Benzo(b)fluoranthene	115 U	U	ug/kg	115	27.6	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Benzo(g,h,i)perylene	115 U	U	ug/kg	115	24.1	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Benzoic acid	621 U	U	ug/kg	621	140	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Benzo(k)fluoranthene	115 U	U	ug/kg	115	21.8	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Benzyl Alcohol	310 U	U	ug/kg	310	106	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851002** Date Collected: 10/23/2015 12:30 Matrix: Solid

Sample ID: **CS-LF008** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Biphenyl	115 U	U	ug/kg	115	14.9	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
4-Bromophenyl-phenylether	115 U	U	ug/kg	115	26.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Butylbenzylphthalate	115 U	U	ug/kg	115	29.9	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Caprolactam	310 U	U	ug/kg	310	83.9	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Carbazole	115 U	U	ug/kg	115	14.9	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
4-Chloro-3-methylphenol	310 U	U	ug/kg	310	17.2	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
4-Chloroaniline	310 U	U	ug/kg	310	154	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
bis(2-Chloroethoxy)methane	115 U	U	ug/kg	115	17.2	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
bis(2-Chloroethyl)ether	115 U	U	ug/kg	115	23.0	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
bis(2-Chloroisopropyl)ether	115 U	U	ug/kg	115	28.7	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2-Chloronaphthalene	115 U	U	ug/kg	115	16.1	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2-Chlorophenol	310 U	U	ug/kg	310	20.7	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
4-Chlorophenyl-phenylether	115 U	U	ug/kg	115	18.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Chrysene	115 U	U	ug/kg	115	14.9	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
mp-Cresol	310 U	U	ug/kg	310	17.2	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
o-Cresol	310 U	U	ug/kg	310	25.3	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Di-n-Butylphthalate	115 U	U	ug/kg	115	17.2	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Di-n-Octylphthalate	310 U	U	ug/kg	310	44.8	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Dibenzo(a,h)anthracene	115 U	U	ug/kg	115	13.8	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Dibenzofuran	115 U	U	ug/kg	115	12.6	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
1,2-Dichlorobenzene	115 U	U	ug/kg	115	14.9	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
1,3-Dichlorobenzene	115 U	U	ug/kg	115	18.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
1,4-Dichlorobenzene	115 U	U	ug/kg	115	19.5	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
3,3-Dichlorobenzidine	172 U	U	ug/kg	172	80.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2,4-Dichlorophenol	230 U	U	ug/kg	230	20.7	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2,6-Dichlorophenol	310 U	U	ug/kg	310	26.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Diethylphthalate	115 U	U	ug/kg	115	14.9	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Dimethoate	310 U	U	ug/kg	310	16.1	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2,4-Dimethylphenol	310 U	U	ug/kg	310	88.5	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Dimethylphthalate	115 U	U	ug/kg	115	18.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
1,2-Dinitrobenzene	115 U	U	ug/kg	115	27.6	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
1,4-Dinitrobenzene	115 U	U	ug/kg	115	26.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2,4-Dinitrophenol	230 U	U	ug/kg	230	73.5	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2,4-Dinitrotoluene	115 U	U	ug/kg	115	33.3	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2,6-Dinitrotoluene	115 U	U	ug/kg	115	27.6	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Diphenylamine	115 U	U	ug/kg	115	16.1	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
1,2-Diphenylhydrazine	115 U	U	ug/kg	115	14.9	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
bis(2-Ethylhexyl)phthalate	115 U	U	ug/kg	115	26.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851002** Date Collected: 10/23/2015 12:30 Matrix: Solid

Sample ID: **CS-LF008** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Fluoranthene	115 U	U	ug/kg	115	21.8	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Fluorene	115 U	U	ug/kg	115	23.0	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Hexachlorobenzene	115 U	U	ug/kg	115	21.8	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Hexachlorobutadiene	115 U	U	ug/kg	115	29.9	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Hexachlorocyclopentadiene	310 U	U	ug/kg	310	100	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Hexachloroethane	115 U	U	ug/kg	115	19.5	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Indeno(1,2,3-cd)pyrene	115 U	U	ug/kg	115	20.7	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Isophorone	115 U	U	ug/kg	115	18.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2-Methyl-4,6-dinitrophenol	310 U	U	ug/kg	310	66.7	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2-Methylnaphthalene	115 U	U	ug/kg	115	18.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2-Naphthylamine	310 U	U	ug/kg	310	75.8	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Naphthalene	115 U	U	ug/kg	115	27.6	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2-Nitroaniline	310 U	U	ug/kg	310	149	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
3-Nitroaniline	414 U	U	ug/kg	414	203	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
4-Nitroaniline	322 U	U	ug/kg	322	161	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Nitrobenzene	115 U	U	ug/kg	115	24.1	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2-Nitrophenol	310 U	U	ug/kg	310	31.0	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
4-Nitrophenol	310 U	U	ug/kg	310	116	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
N-Nitrosodi-n-butylamine	115 U	U	ug/kg	115	26.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
N-Nitrosodiethylamine	115 U	U	ug/kg	115	23.0	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
N-Nitrosodimethylamine	115 U	U	ug/kg	115	41.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
N-Nitroso-di-n-propylamine	115 U	U	ug/kg	115	19.5	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
N-Nitrosodiphenylamine	115 U	U	ug/kg	115	19.5	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
N-Nitrosopyrrolidine	115 U	U	ug/kg	115	21.8	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Pentachlorobenzene	115 U	U	ug/kg	115	27.6	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Pentachlorophenol	230 U	U	ug/kg	230	41.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Phenanthrene	115 U	U	ug/kg	115	16.1	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Phenol	310 U	U	ug/kg	310	17.2	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Pyrene	115 U	U	ug/kg	115	20.7	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Pyridine	310 U	U	ug/kg	310	27.6	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Resorcinol	115 U	U	ug/kg	115	26.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
1,2,4,5-Tetrachlorobenzene	115 U	U	ug/kg	115	17.2	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2,3,4,6-Tetrachlorophenol	310 U	U	ug/kg	310	24.1	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
1,2,4-Trichlorobenzene	115 U	U	ug/kg	115	26.4	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2,4,5-Trichlorophenol	310 U	U	ug/kg	310	23.0	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2,4,6-Trichlorophenol	230 U	U	ug/kg	230	23.0	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	60.2		%	37 - 123	SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851002** Date Collected: 10/23/2015 12:30 Matrix: Solid

Sample ID: **CS-LF008** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	51.7		%	45 - 105		SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
2-Fluorophenol (S)	58.7		%	35 - 104		SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Nitrobenzene-d5 (S)	54.1		%	41 - 110		SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Phenol-d5 (S)	58.2		%	40 - 100		SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
Terphenyl-d14 (S)	55.7		%	38 - 113		SW846 8270D	10/26/15	BS	10/27/15 17:32	CGS	A
PCBs											
Total Polychlorinated Biphenyl	0.038 U	U	mg/kg	0.038	0.038	SW846 8082A	10/26/15	BS	10/26/15 16:24	EGO	A
Aroclor-1016	0.038 U	U	mg/kg	0.038	0.0069	SW846 8082A	10/26/15	BS	10/26/15 16:24	EGO	A
Aroclor-1221	0.038 U	U	mg/kg	0.038	0.0035	SW846 8082A	10/26/15	BS	10/26/15 16:24	EGO	A
Aroclor-1232	0.038 U	U	mg/kg	0.038	0.0069	SW846 8082A	10/26/15	BS	10/26/15 16:24	EGO	A
Aroclor-1242	0.038 U	U	mg/kg	0.038	0.010	SW846 8082A	10/26/15	BS	10/26/15 16:24	EGO	A
Aroclor-1248	0.038 U	U	mg/kg	0.038	0.0069	SW846 8082A	10/26/15	BS	10/26/15 16:24	EGO	A
Aroclor-1254	0.038 U	U	mg/kg	0.038	0.0069	SW846 8082A	10/26/15	BS	10/26/15 16:24	EGO	A
Aroclor-1260	0.038 U	U	mg/kg	0.038	0.0069	SW846 8082A	10/26/15	BS	10/26/15 16:24	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	65.1		%	46 - 120		SW846 8082A	10/26/15	BS	10/26/15 16:24	EGO	A
Tetrachloro-m-xylene (S)	67.3		%	52 - 115		SW846 8082A	10/26/15	BS	10/26/15 16:24	EGO	A
PESTICIDES											
Aldrin	2.0 U	U	ug/kg	2.0	0.64	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
alpha-BHC	2.0 U	U	ug/kg	2.0	0.17	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
beta-BHC	2.0 U	U	ug/kg	2.0	0.21	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
delta-BHC	2.0 U	U	ug/kg	2.0	0.15	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
gamma-BHC	2.0 U	U	ug/kg	2.0	0.16	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
alpha-Chlordane	2.0 U	U	ug/kg	2.0	0.21	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
gamma-Chlordane	2.0 U	U	ug/kg	2.0	0.34	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
4,4'-DDD	3.8 U	U	ug/kg	3.8	0.31	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
4,4'-DDE	3.8 U	U	ug/kg	3.8	0.52	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
4,4'-DDT	3.8 U	U	ug/kg	3.8	0.44	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Dieldrin	3.8 U	U	ug/kg	3.8	0.44	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Endosulfan I	2.0 U	U	ug/kg	2.0	0.24	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Endosulfan II	3.8 U	U	ug/kg	3.8	0.80	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Endosulfan Sulfate	3.8 U	U	ug/kg	3.8	0.25	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Endrin	3.8 U	U	ug/kg	3.8	0.28	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Endrin Aldehyde	3.8 U	U	ug/kg	3.8	0.42	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Endrin Ketone	3.8 U	U	ug/kg	3.8	0.53	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Heptachlor	2.0 U	U	ug/kg	2.0	0.20	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851002** Date Collected: 10/23/2015 12:30 Matrix: Solid
Sample ID: **CS-LF008** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Heptachlor Epoxide	2.0 U	U	ug/kg	2.0	0.20	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Methoxychlor	3.8 U	U	ug/kg	3.8	0.51	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Toxaphene	40.5 U	U	ug/kg	40.5	6.7	SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	55.9		%	30 - 135		SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
Tetrachloro-m-xylene (S)	56.5		%	30 - 111		SW846 8081B	10/26/15	BS	10/28/15 11:26	RWS	A
HERBICIDES											
2,4-D	79.3 U	U	ug/kg	79.3	30.8	SW846 8151A	10/26/15	RMP	10/28/15 11:40	KJH	A
2,4-DB	79.3 U	U	ug/kg	79.3	42.6	SW846 8151A	10/26/15	RMP	10/28/15 11:40	KJH	A
Dalapon	79.3 U	U	ug/kg	79.3	20.1	SW846 8151A	10/26/15	RMP	10/28/15 11:40	KJH	A
Dicamba	79.3 U	U	ug/kg	79.3	28.4	SW846 8151A	10/26/15	RMP	10/28/15 11:40	KJH	A
Dichloroprop	79.3 U	U	ug/kg	79.3	31.9	SW846 8151A	10/26/15	RMP	10/28/15 11:40	KJH	A
Dinoseb	198 U	U	ug/kg	198	40.2	SW846 8151A	10/26/15	RMP	10/28/15 11:40	KJH	A
4-Nitrophenol	79.3 U	U	ug/kg	79.3	27.2	SW846 8151A	10/26/15	RMP	10/28/15 11:40	KJH	A
2,4,5-T	79.3 U	U	ug/kg	79.3	33.1	SW846 8151A	10/26/15	RMP	10/28/15 11:40	KJH	A
2,4,5-TP	79.3 U	U	ug/kg	79.3	36.7	SW846 8151A	10/26/15	RMP	10/28/15 11:40	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	125		%	30 - 153		SW846 8151A	10/26/15	RMP	10/28/15 11:40	KJH	A
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	11/4/15	MLM	11/5/15 07:34	LJF	A
Hexavalent Chromium	2.4 U	U	mg/kg	2.4	0.46	SW846 7196A	10/27/15	MLM	10/28/15 15:00	MLM	A
Ignitability	not ignitable	3				SW846 1030			11/6/15 10:00	BPC	A
Moisture	16.3		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	C
Sulfide, Reactive	6.4		ppm	6.2	1.2	SW846 7.3	11/4/15	MLM	11/5/15 19:00	MLM	A
Total Solids	83.7		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	C
METALS											
Aluminum, Total	4490		mg/kg	10.9	3.6	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Antimony, Total	2.2 U	U	mg/kg	2.2	0.72	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Arsenic, Total	2.6		mg/kg	2.2	0.72	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Barium, Total	51.2		mg/kg	1.1	0.36	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Beryllium, Total	1.1 U	U	mg/kg	1.1	0.36	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Cadmium, Total	0.54 U	U	mg/kg	0.54	0.18	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Calcium, Total	558		mg/kg	10.9	3.6	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Chromium, Total	4.3		mg/kg	1.1	0.36	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Cobalt, Total	0.60J	J	mg/kg	1.1	0.36	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851002** Date Collected: 10/23/2015 12:30 Matrix: Solid

Sample ID: **CS-LF008** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Copper, Total	6.3		mg/kg	2.2	0.72	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Iron, Total	6130		mg/kg	10.9	3.6	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Lead, Total	4.3		mg/kg	2.2	0.72	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Magnesium, Total	1670		mg/kg	10.9	3.6	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Manganese, Total	20.1		mg/kg	1.1	0.36	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Mercury, Total	0.030J	J	mg/kg	0.054	0.017	SW846 7471B	10/28/15	MNP	10/28/15 14:03	MNP	A2
Nickel, Total	2.0J	J	mg/kg	2.2	0.72	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Potassium, Total	1110		mg/kg	54.3	18.1	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Selenium, Total	5.4 U	U	mg/kg	5.4	1.8	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Silver, Total	0.54 U	U	mg/kg	0.54	0.18	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Sodium, Total	534		mg/kg	54.3	18.1	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Thallium, Total	3.3 U	U	mg/kg	3.3	1.1	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Vanadium, Total	7.6		mg/kg	1.1	0.36	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1
Zinc, Total	6.3		mg/kg	2.2	0.72	SW846 6010C	10/25/15	JPS	10/27/15 02:12	TSS	A1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851003** Date Collected: 10/23/2015 12:40 Matrix: Solid

Sample ID: **CS-LF009** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	13.8 U	U	ug/kg	13.8	6.3	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Benzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Bromochloromethane	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Bromodichloromethane	2.8 U	U	ug/kg	2.8	0.98	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Bromoform	2.8 U	U	ug/kg	2.8	0.72	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Bromomethane	2.8 U	U	ug/kg	2.8	0.72	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
2-Butanone	13.8 U	U1	ug/kg	13.8	4.4	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Carbon Disulfide	2.8 U	U	ug/kg	2.8	0.87	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Carbon Tetrachloride	2.8 U	U	ug/kg	2.8	0.70	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Chlorobenzene	2.8 U	U	ug/kg	2.8	0.70	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Chlorodibromomethane	2.8 U	U	ug/kg	2.8	0.94	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Chloroethane	3.0J	J	ug/kg	6.9	1.2	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Chloroform	2.8 U	U	ug/kg	2.8	0.73	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Chloromethane	2.8 U	U	ug/kg	2.8	0.76	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Cyclohexane	2.8 U	U	ug/kg	2.8	0.70	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,2-Dibromo-3-chloropropane	6.9 U	U	ug/kg	6.9	4.0	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,2-Dibromoethane	2.8 U	U	ug/kg	2.8	0.74	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,2-Dichlorobenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,3-Dichlorobenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,4-Dichlorobenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Dichlorodifluoromethane	2.8 U	U	ug/kg	2.8	0.92	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,1-Dichloroethane	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,2-Dichloroethane	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,1-Dichloroethene	2.8 U	U	ug/kg	2.8	0.72	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
cis-1,2-Dichloroethene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
trans-1,2-Dichloroethene	2.8 U	U	ug/kg	2.8	0.72	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,2-Dichloropropane	2.8 U	U	ug/kg	2.8	0.83	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
cis-1,3-Dichloropropene	2.8 U	U	ug/kg	2.8	0.76	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
trans-1,3-Dichloropropene	2.8 U	U	ug/kg	2.8	0.80	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,4-Dioxane	103 U	U	ug/kg	103	24.5	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Ethylbenzene	2.8 U	U	ug/kg	2.8	0.94	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Freon 113	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
2-Hexanone	13.8 U	U2	ug/kg	13.8	3.9	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Isopropylbenzene	2.8 U	U	ug/kg	2.8	0.84	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Methyl acetate	2.8 U	U	ug/kg	2.8	0.81	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Methyl cyclohexane	2.8 U	U	ug/kg	2.8	0.77	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851003** Date Collected: 10/23/2015 12:40 Matrix: Solid

Sample ID: **CS-LF009** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
4-Methyl-2-Pentanone(MIBK)	13.8 U	U	ug/kg	13.8	5.2	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Methylene Chloride	12.1		ug/kg	2.8	1.1	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Styrene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,1,2,2-Tetrachloroethane	2.8 U	U	ug/kg	2.8	0.77	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Tetrachloroethene	2.8 U	U	ug/kg	2.8	0.83	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Toluene	2.8 U	U	ug/kg	2.8	0.92	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,2,3-Trichlorobenzene	6.9 U	U	ug/kg	6.9	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,2,4-Trichlorobenzene	6.9 U	U	ug/kg	6.9	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,1,1-Trichloroethane	2.8 U	U	ug/kg	2.8	0.85	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
1,1,2-Trichloroethane	2.8 U	U	ug/kg	2.8	0.77	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Trichloroethene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Trichlorofluoromethane	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Vinyl Chloride	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
o-Xylene	2.8 U	U	ug/kg	2.8	0.80	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
mp-Xylene	5.5 U	U	ug/kg	5.5	1.1	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.4		%	56 - 124	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
4-Bromofluorobenzene (S)	105		%	51 - 128	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Dibromofluoromethane (S)	98.3		%	62 - 123	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2
Toluene-d8 (S)	98.8		%	59 - 131	SW846 8260C	10/24/15	TMP	10/27/15 17:19	TMP	A2

SEMIVOLATILES

Acenaphthene	102 U	U	ug/kg	102	15.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Acenaphthylene	102 U	U	ug/kg	102	11.2	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Acetophenone	102 U	U	ug/kg	102	10.2	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Aniline	276 U	U	ug/kg	276	141	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Anthracene	102 U	U	ug/kg	102	10.2	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Atrazine	102 U	U	ug/kg	102	26.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Benzaldehyde	276 U	U	ug/kg	276	42.9	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Benzidine	817 U	U	ug/kg	817	402	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Benzo(a)anthracene	102 U	U	ug/kg	102	15.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Benzo(a)pyrene	102 U	U	ug/kg	102	16.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Benzo(b)fluoranthene	102 U	U	ug/kg	102	24.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Benzo(g,h,i)perylene	102 U	U	ug/kg	102	21.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Benzoic acid	551 U	U	ug/kg	551	125	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Benzo(k)fluoranthene	102 U	U	ug/kg	102	19.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Benzyl Alcohol	276 U	U	ug/kg	276	93.9	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851003** Date Collected: 10/23/2015 12:40 Matrix: Solid

Sample ID: **CS-LF009** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Biphenyl	39.4J	J	ug/kg	102	13.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
4-Bromophenyl-phenylether	102 U	U	ug/kg	102	23.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Butylbenzylphthalate	102 U	U	ug/kg	102	26.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Caprolactam	276 U	U	ug/kg	276	74.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Carbazole	102 U	U	ug/kg	102	13.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
4-Chloro-3-methylphenol	276 U	U	ug/kg	276	15.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
4-Chloroaniline	276 U	U	ug/kg	276	137	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
bis(2-Chloroethoxy)methane	102 U	U	ug/kg	102	15.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
bis(2-Chloroethyl)ether	102 U	U	ug/kg	102	20.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
bis(2-Chloroisopropyl)ether	102 U	U	ug/kg	102	25.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2-Chloronaphthalene	102 U	U	ug/kg	102	14.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2-Chlorophenol	276 U	U	ug/kg	276	18.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
4-Chlorophenyl-phenylether	102 U	U	ug/kg	102	16.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Chrysene	102 U	U	ug/kg	102	13.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
mp-Cresol	276 U	U	ug/kg	276	15.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
o-Cresol	276 U	U	ug/kg	276	22.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Di-n-Butylphthalate	242		ug/kg	102	15.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Di-n-Octylphthalate	276 U	U	ug/kg	276	39.8	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Dibenzo(a,h)anthracene	102 U	U	ug/kg	102	12.2	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Dibenzofuran	102 U	U	ug/kg	102	11.2	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
1,2-Dichlorobenzene	102 U	U	ug/kg	102	13.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
1,3-Dichlorobenzene	102 U	U	ug/kg	102	16.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
1,4-Dichlorobenzene	102 U	U	ug/kg	102	17.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
3,3-Dichlorobenzidine	153 U	U	ug/kg	153	71.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2,4-Dichlorophenol	204 U	U	ug/kg	204	18.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2,6-Dichlorophenol	276 U	U	ug/kg	276	23.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Diethylphthalate	102 U	U	ug/kg	102	13.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Dimethoate	276 U	U	ug/kg	276	14.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2,4-Dimethylphenol	276 U	U	ug/kg	276	78.6	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Dimethylphthalate	102 U	U	ug/kg	102	16.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
1,2-Dinitrobenzene	102 U	U	ug/kg	102	24.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
1,4-Dinitrobenzene	102 U	U	ug/kg	102	23.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2,4-Dinitrophenol	204 U	U	ug/kg	204	65.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2,4-Dinitrotoluene	102 U	U	ug/kg	102	29.6	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2,6-Dinitrotoluene	102 U	U	ug/kg	102	24.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Diphenylamine	102 U	U	ug/kg	102	14.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
1,2-Diphenylhydrazine	102 U	U	ug/kg	102	13.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
bis(2-Ethylhexyl)phthalate	102 U	U	ug/kg	102	23.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851003** Date Collected: 10/23/2015 12:40 Matrix: Solid

Sample ID: **CS-LF009** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Fluoranthene	102 U	U	ug/kg	102	19.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Fluorene	102 U	U	ug/kg	102	20.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Hexachlorobenzene	102 U	U	ug/kg	102	19.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Hexachlorobutadiene	102 U	U	ug/kg	102	26.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Hexachlorocyclopentadiene	276 U	U	ug/kg	276	88.8	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Hexachloroethane	102 U	U	ug/kg	102	17.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Indeno(1,2,3-cd)pyrene	102 U	U	ug/kg	102	18.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Isophorone	102 U	U	ug/kg	102	16.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2-Methyl-4,6-dinitrophenol	276 U	U	ug/kg	276	59.2	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2-Methylnaphthalene	105		ug/kg	102	16.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2-Naphthylamine	276 U	U	ug/kg	276	67.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Naphthalene	102 U	U	ug/kg	102	24.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2-Nitroaniline	276 U	U	ug/kg	276	133	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
3-Nitroaniline	367 U	U	ug/kg	367	181	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
4-Nitroaniline	286 U	U	ug/kg	286	143	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Nitrobenzene	102 U	U	ug/kg	102	21.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2-Nitrophenol	276 U	U	ug/kg	276	27.6	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
4-Nitrophenol	276 U	U	ug/kg	276	103	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
N-Nitrosodi-n-butylamine	102 U	U	ug/kg	102	23.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
N-Nitrosodiethylamine	102 U	U	ug/kg	102	20.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
N-Nitrosodimethylamine	102 U	U	ug/kg	102	36.7	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
N-Nitroso-di-n-propylamine	102 U	U	ug/kg	102	17.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
N-Nitrosodiphenylamine	102 U	U	ug/kg	102	17.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
N-Nitrosopyrrolidine	102 U	U	ug/kg	102	19.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Pentachlorobenzene	102 U	U	ug/kg	102	24.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Pentachlorophenol	204 U	U	ug/kg	204	36.7	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Phenanthrene	106		ug/kg	102	14.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Phenol	276 U	U	ug/kg	276	15.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Pyrene	102 U	U	ug/kg	102	18.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Pyridine	276 U	U	ug/kg	276	24.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Resorcinol	102 U	U	ug/kg	102	23.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
1,2,4,5-Tetrachlorobenzene	102 U	U	ug/kg	102	15.3	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2,3,4,6-Tetrachlorophenol	276 U	U	ug/kg	276	21.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
1,2,4-Trichlorobenzene	102 U	U	ug/kg	102	23.5	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2,4,5-Trichlorophenol	276 U	U	ug/kg	276	20.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2,4,6-Trichlorophenol	204 U	U	ug/kg	204	20.4	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	99		%	37 - 123	SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851003** Date Collected: 10/23/2015 12:40 Matrix: Solid

Sample ID: **CS-LF009** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	73.7		%	45 - 105		SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
2-Fluorophenol (S)	72.8		%	35 - 104		SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Nitrobenzene-d5 (S)	72.1		%	41 - 110		SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Phenol-d5 (S)	72.9		%	40 - 100		SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
Terphenyl-d14 (S)	98.9		%	38 - 113		SW846 8270D	10/26/15	BS	10/27/15 17:08	CGS	A
PCBs											
Total Polychlorinated Biphenyl	0.033 U	U	mg/kg	0.033	0.033	SW846 8082A	10/26/15	BS	10/26/15 16:35	EGO	A
Aroclor-1016	0.033 U	U	mg/kg	0.033	0.0061	SW846 8082A	10/26/15	BS	10/26/15 16:35	EGO	A
Aroclor-1221	0.033 U	U	mg/kg	0.033	0.0030	SW846 8082A	10/26/15	BS	10/26/15 16:35	EGO	A
Aroclor-1232	0.033 U	U	mg/kg	0.033	0.0061	SW846 8082A	10/26/15	BS	10/26/15 16:35	EGO	A
Aroclor-1242	0.033 U	U	mg/kg	0.033	0.0091	SW846 8082A	10/26/15	BS	10/26/15 16:35	EGO	A
Aroclor-1248	0.033 U	U	mg/kg	0.033	0.0061	SW846 8082A	10/26/15	BS	10/26/15 16:35	EGO	A
Aroclor-1254	0.033 U	U	mg/kg	0.033	0.0061	SW846 8082A	10/26/15	BS	10/26/15 16:35	EGO	A
Aroclor-1260	0.033 U	U	mg/kg	0.033	0.0061	SW846 8082A	10/26/15	BS	10/26/15 16:35	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	68.8		%	46 - 120		SW846 8082A	10/26/15	BS	10/26/15 16:35	EGO	A
Tetrachloro-m-xylene (S)	60.6		%	52 - 115		SW846 8082A	10/26/15	BS	10/26/15 16:35	EGO	A
PESTICIDES											
Aldrin	1.7 U	U	ug/kg	1.7	0.56	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
alpha-BHC	1.7 U	U	ug/kg	1.7	0.15	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
beta-BHC	1.7 U	U	ug/kg	1.7	0.18	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
delta-BHC	1.7 U	U	ug/kg	1.7	0.13	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
gamma-BHC	1.7 U	U	ug/kg	1.7	0.14	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
alpha-Chlordane	1.7 U	U	ug/kg	1.7	0.18	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
gamma-Chlordane	1.7 U	U	ug/kg	1.7	0.29	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
4,4'-DDD	3.3 U	U	ug/kg	3.3	0.27	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
4,4'-DDE	3.3 U	U	ug/kg	3.3	0.46	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
4,4'-DDT	3.3 U	U	ug/kg	3.3	0.39	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Dieldrin	3.3 U	U	ug/kg	3.3	0.39	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Endosulfan I	1.7 U	U	ug/kg	1.7	0.21	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Endosulfan II	3.3 U	U	ug/kg	3.3	0.70	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Endosulfan Sulfate	3.3 U	U	ug/kg	3.3	0.22	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Endrin	3.3 U	U	ug/kg	3.3	0.24	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Endrin Aldehyde	3.3 U	U	ug/kg	3.3	0.37	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Endrin Ketone	3.3 U	U	ug/kg	3.3	0.47	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Heptachlor	1.7 U	U	ug/kg	1.7	0.17	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851003** Date Collected: 10/23/2015 12:40 Matrix: Solid

Sample ID: **CS-LF009** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Heptachlor Epoxide	1.7 U	U	ug/kg	1.7	0.17	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Methoxychlor	3.3 U	U	ug/kg	3.3	0.45	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Toxaphene	35.5 U	U	ug/kg	35.5	5.9	SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	73.7		%	30 - 135		SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
Tetrachloro-m-xylene (S)	57.6		%	30 - 111		SW846 8081B	10/26/15	BS	10/28/15 11:42	RWS	A
HERBICIDES											
2,4-D	68.4 U	U	ug/kg	68.4	26.5	SW846 8151A	10/26/15	RMP	10/28/15 06:41	KJH	A
2,4-DB	68.4 U	U	ug/kg	68.4	36.7	SW846 8151A	10/26/15	RMP	10/28/15 06:41	KJH	A
Dalapon	68.4 U	U	ug/kg	68.4	17.4	SW846 8151A	10/26/15	RMP	10/28/15 06:41	KJH	A
Dicamba	68.4 U	U	ug/kg	68.4	24.5	SW846 8151A	10/26/15	RMP	10/28/15 06:41	KJH	A
Dichloroprop	68.4 U	U	ug/kg	68.4	27.6	SW846 8151A	10/26/15	RMP	10/28/15 06:41	KJH	A
Dinoseb	170 U	U	ug/kg	170	34.7	SW846 8151A	10/26/15	RMP	10/28/15 06:41	KJH	A
4-Nitrophenol	68.4 U	U	ug/kg	68.4	23.5	SW846 8151A	10/26/15	RMP	10/28/15 06:41	KJH	A
2,4,5-T	68.4 U	U	ug/kg	68.4	28.6	SW846 8151A	10/26/15	RMP	10/28/15 06:41	KJH	A
2,4,5-TP	68.4 U	U	ug/kg	68.4	31.6	SW846 8151A	10/26/15	RMP	10/28/15 06:41	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	79		%	30 - 153		SW846 8151A	10/26/15	RMP	10/28/15 06:41	KJH	A
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	11/4/15	MLM	11/5/15 07:34	LJF	A
Hexavalent Chromium	2.1 U	U	mg/kg	2.1	0.40	SW846 7196A	10/27/15	MLM	10/28/15 15:00	MLM	A
Ignitability	not ignitable	3				SW846 1030			11/6/15 10:00	BPC	A
Moisture	4.6		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	B
Sulfide, Reactive	6.4		ppm	6.2	1.2	SW846 7.3	11/4/15	MLM	11/5/15 19:00	MLM	A
Total Solids	95.4		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	B
METALS											
Aluminum, Total	7750		mg/kg	9.9	3.3	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Antimony, Total	2.0 U	U	mg/kg	2.0	0.66	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Arsenic, Total	2.0 U	U	mg/kg	2.0	0.66	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Barium, Total	29.8		mg/kg	0.99	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Beryllium, Total	0.99 U	U	mg/kg	0.99	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Cadmium, Total	0.49 U	U	mg/kg	0.49	0.17	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Calcium, Total	902		mg/kg	9.9	3.3	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Chromium, Total	8.3		mg/kg	0.99	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Cobalt, Total	2.3		mg/kg	0.99	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851003** Date Collected: 10/23/2015 12:40 Matrix: Solid

Sample ID: **CS-LF009** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Copper, Total	7.3		mg/kg	2.0	0.66	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Iron, Total	35400		mg/kg	9.9	3.3	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Lead, Total	4.7		mg/kg	2.0	0.66	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Magnesium, Total	1570		mg/kg	9.9	3.3	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Manganese, Total	146		mg/kg	0.99	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Mercury, Total	0.045 U	U	mg/kg	0.045	0.014	SW846 7471B	10/28/15	MNP	10/28/15 14:04	MNP	A2
Nickel, Total	8.8		mg/kg	2.0	0.66	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Potassium, Total	1140		mg/kg	49.4	16.5	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Selenium, Total	4.9 U	U	mg/kg	4.9	1.7	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Silver, Total	0.49 U	U	mg/kg	0.49	0.17	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Sodium, Total	221		mg/kg	49.4	16.5	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Thallium, Total	3.0 U	U	mg/kg	3.0	0.99	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Vanadium, Total	13.8		mg/kg	0.99	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1
Zinc, Total	39.2		mg/kg	2.0	0.66	SW846 6010C	10/25/15	JPS	10/27/15 02:15	TSS	A1

Mrs. Vicki A. Forney
Project Coordinator

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851004** Date Collected: 10/23/2015 12:50 Matrix: Solid

Sample ID: **CS-LF006** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	624 U	U	ug/kg	624	193	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Benzene	62.4 U	U	ug/kg	62.4	14.3	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Bromochloromethane	62.4 U	U	ug/kg	62.4	20.0	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Bromodichloromethane	62.4 U	U	ug/kg	62.4	16.8	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Bromoform	62.4 U	U	ug/kg	62.4	25.0	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Bromomethane	62.4 U	U	ug/kg	62.4	24.3	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
2-Butanone	624 U	U	ug/kg	624	112	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Carbon Disulfide	62.4 U	U	ug/kg	62.4	14.3	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Carbon Tetrachloride	62.4 U	U	ug/kg	62.4	19.3	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Chlorobenzene	62.4 U	U	ug/kg	62.4	11.9	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Chlorodibromomethane	62.4 U	U	ug/kg	62.4	28.1	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Chloroethane	62.4 U	U	ug/kg	62.4	20.6	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Chloroform	62.4 U	U	ug/kg	62.4	13.1	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Chloromethane	62.4 U	U	ug/kg	62.4	19.3	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Cyclohexane	62.4 U	U51	ug/kg	62.4	18.1	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,2-Dibromo-3-chloropropane	437 U	U	ug/kg	437	93.6	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,2-Dibromoethane	62.4 U	U	ug/kg	62.4	17.5	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,2-Dichlorobenzene	62.4 U	U	ug/kg	62.4	23.7	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,3-Dichlorobenzene	62.4 U	U	ug/kg	62.4	15.6	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,4-Dichlorobenzene	62.4 U	U	ug/kg	62.4	16.8	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Dichlorodifluoromethane	62.4 U	U	ug/kg	62.4	20.6	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,1-Dichloroethane	62.4 U	U	ug/kg	62.4	17.5	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,2-Dichloroethane	62.4 U	U	ug/kg	62.4	20.0	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,1-Dichloroethene	62.4 U	U	ug/kg	62.4	18.1	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
cis-1,2-Dichloroethene	62.4 U	U	ug/kg	62.4	20.0	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
trans-1,2-Dichloroethene	62.4 U	U50	ug/kg	62.4	16.2	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,2-Dichloropropane	62.4 U	U	ug/kg	62.4	15.0	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
cis-1,3-Dichloropropene	62.4 U	U	ug/kg	62.4	19.3	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
trans-1,3-Dichloropropene	62.4 U	U	ug/kg	62.4	18.1	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,4-Dioxane	20000 U	U	ug/kg	20000	3670	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Ethylbenzene	62.4 U	U	ug/kg	62.4	21.2	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Freon 113	62.4 U	U48 49	ug/kg	62.4	16.2	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
2-Hexanone	312 U	U	ug/kg	312	81.1	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Isopropylbenzene	62.4 U	U	ug/kg	62.4	13.7	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Methyl acetate	125 U	U58	ug/kg	125	20.0	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851004** Date Collected: 10/23/2015 12:50 Matrix: Solid

Sample ID: **CS-LF006** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl cyclohexane	62.4 U	U56 57	ug/kg	62.4	18.7	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Methyl t-Butyl Ether	62.4 U	U	ug/kg	62.4	20.6	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
4-Methyl-2-Pentanone(MIBK)	312 U	U	ug/kg	312	93.6	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Methylene Chloride	36.2J	J	ug/kg	62.4	28.1	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Styrene	62.4 U	U	ug/kg	62.4	15.0	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,1,2,2-Tetrachloroethane	62.4 U	U	ug/kg	62.4	21.2	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Tetrachloroethene	44.5J	J	ug/kg	62.4	21.8	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Toluene	62.4 U	U	ug/kg	62.4	14.3	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,2,3-Trichlorobenzene	250 U	U54 55	ug/kg	250	58.0	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,2,4-Trichlorobenzene	187 U	U52 53	ug/kg	187	51.2	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,1,1-Trichloroethane	62.4 U	U	ug/kg	62.4	13.7	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
1,1,2-Trichloroethane	62.4 U	U	ug/kg	62.4	20.6	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Trichloroethene	62.4 U	U	ug/kg	62.4	20.6	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Trichlorofluoromethane	62.4 U	U	ug/kg	62.4	15.0	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Vinyl Chloride	62.4 U	U	ug/kg	62.4	18.7	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
o-Xylene	62.4 U	U	ug/kg	62.4	20.6	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
mp-Xylene	125 U	U	ug/kg	125	32.4	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.8		%	71 - 146	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
4-Bromofluorobenzene (S)	103		%	46 - 138	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Dibromofluoromethane (S)	86.5		%	42 - 143	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3
Toluene-d8 (S)	118		%	54 - 141	SW846 8260C	10/24/15	CPK	10/29/15 02:00	CJG	A3

SEMIVOLATILES

Acenaphthene	122 U	U	ug/kg	122	18.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Acenaphthylene	122 U	U	ug/kg	122	13.4	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Acetophenone	122 U	U	ug/kg	122	12.2	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Aniline	329 U	U	ug/kg	329	168	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Anthracene	122 U	U	ug/kg	122	12.2	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Atrazine	122 U	U	ug/kg	122	31.6	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Benzaldehyde	329 U	U	ug/kg	329	51.1	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Benzidine	974 U	U	ug/kg	974	480	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Benzo(a)anthracene	122 U	U	ug/kg	122	18.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Benzo(a)pyrene	122 U	U	ug/kg	122	19.5	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Benzo(b)fluoranthene	122 U	U	ug/kg	122	29.2	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Benzo(g,h,i)perylene	122 U	U	ug/kg	122	25.6	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851004** Date Collected: 10/23/2015 12:50 Matrix: Solid

Sample ID: **CS-LF006** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Benzoic acid	657 U	U	ug/kg	657	148	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Benzo(k)fluoranthene	122 U	U	ug/kg	122	23.1	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Benzyl Alcohol	329 U	U	ug/kg	329	112	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Biphenyl	122 U	U	ug/kg	122	15.8	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
4-Bromophenyl-phenylether	122 U	U	ug/kg	122	28.0	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Butylbenzylphthalate	122 U	U	ug/kg	122	31.6	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Caprolactam	329 U	U	ug/kg	329	88.8	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Carbazole	122 U	U	ug/kg	122	15.8	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
4-Chloro-3-methylphenol	329 U	U	ug/kg	329	18.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
4-Chloroaniline	329 U	U	ug/kg	329	163	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
bis(2-Chloroethoxy)methane	122 U	U	ug/kg	122	18.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
bis(2-Chloroethyl)ether	122 U	U	ug/kg	122	24.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
bis(2-Chloroisopropyl)ether	122 U	U	ug/kg	122	30.4	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2-Chloronaphthalene	122 U	U	ug/kg	122	17.0	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2-Chlorophenol	329 U	U	ug/kg	329	21.9	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
4-Chlorophenyl-phenylether	122 U	U	ug/kg	122	19.5	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Chrysene	122 U	U	ug/kg	122	15.8	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
mp-Cresol	329 U	U	ug/kg	329	18.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
o-Cresol	329 U	U	ug/kg	329	26.8	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Di-n-Butylphthalate	673		ug/kg	122	18.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Di-n-Octylphthalate	329 U	U	ug/kg	329	47.5	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Dibenzo(a,h)anthracene	122 U	U	ug/kg	122	14.6	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Dibenzofuran	122 U	U	ug/kg	122	13.4	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
1,2-Dichlorobenzene	122 U	U	ug/kg	122	15.8	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
1,3-Dichlorobenzene	122 U	U	ug/kg	122	19.5	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
1,4-Dichlorobenzene	122 U	U	ug/kg	122	20.7	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
3,3-Dichlorobenzidine	183 U	U	ug/kg	183	85.2	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2,4-Dichlorophenol	243 U	U	ug/kg	243	21.9	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2,6-Dichlorophenol	329 U	U	ug/kg	329	28.0	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Diethylphthalate	122 U	U	ug/kg	122	15.8	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Dimethoate	329 U	U	ug/kg	329	17.0	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2,4-Dimethylphenol	329 U	U	ug/kg	329	93.7	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Dimethylphthalate	122 U	U	ug/kg	122	19.5	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
1,2-Dinitrobenzene	122 U	U	ug/kg	122	29.2	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
1,4-Dinitrobenzene	122 U	U	ug/kg	122	28.0	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2,4-Dinitrophenol	243 U	U	ug/kg	243	77.9	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2,4-Dinitrotoluene	122 U	U	ug/kg	122	35.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2,6-Dinitrotoluene	122 U	U	ug/kg	122	29.2	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851004** Date Collected: 10/23/2015 12:50 Matrix: Solid

Sample ID: **CS-LF006** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Diphenylamine	122 U	U	ug/kg	122	17.0	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
1,2-Diphenylhydrazine	122 U	U	ug/kg	122	15.8	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
bis(2-Ethylhexyl)phthalate	122 U	U	ug/kg	122	28.0	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Fluoranthene	122 U	U	ug/kg	122	23.1	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Fluorene	122 U	U	ug/kg	122	24.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Hexachlorobenzene	122 U	U	ug/kg	122	23.1	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Hexachlorobutadiene	122 U	U	ug/kg	122	31.6	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Hexachlorocyclopentadiene	329 U	U	ug/kg	329	106	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Hexachloroethane	122 U	U	ug/kg	122	20.7	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Indeno(1,2,3-cd)pyrene	122 U	U	ug/kg	122	21.9	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Isophorone	122 U	U	ug/kg	122	19.5	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2-Methyl-4,6-dinitrophenol	329 U	U	ug/kg	329	70.6	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2-Methylnaphthalene	122 U	U	ug/kg	122	19.5	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2-Naphthylamine	329 U	U	ug/kg	329	80.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Naphthalene	122 U	U	ug/kg	122	29.2	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2-Nitroaniline	329 U	U	ug/kg	329	158	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
3-Nitroaniline	438 U	U	ug/kg	438	215	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
4-Nitroaniline	341 U	U	ug/kg	341	170	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Nitrobenzene	122 U	U	ug/kg	122	25.6	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2-Nitrophenol	329 U	U	ug/kg	329	32.9	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
4-Nitrophenol	329 U	U	ug/kg	329	123	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
N-Nitrosodi-n-butylamine	122 U	U	ug/kg	122	28.0	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
N-Nitrosodiethylamine	122 U	U	ug/kg	122	24.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
N-Nitrosodimethylamine	122 U	U	ug/kg	122	43.8	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
N-Nitroso-di-n-propylamine	122 U	U	ug/kg	122	20.7	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
N-Nitrosodiphenylamine	122 U	U	ug/kg	122	20.7	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
N-Nitrosopyrrolidine	122 U	U	ug/kg	122	23.1	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Pentachlorobenzene	122 U	U	ug/kg	122	29.2	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Pentachlorophenol	243 U	U	ug/kg	243	43.8	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Phenanthrene	122 U	U	ug/kg	122	17.0	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Phenol	329 U	U	ug/kg	329	18.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Pyrene	122 U	U	ug/kg	122	21.9	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Pyridine	329 U	U	ug/kg	329	29.2	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Resorcinol	122 U	U	ug/kg	122	28.0	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
1,2,4,5-Tetrachlorobenzene	122 U	U	ug/kg	122	18.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2,3,4,6-Tetrachlorophenol	329 U	U	ug/kg	329	25.6	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
1,2,4-Trichlorobenzene	122 U	U	ug/kg	122	28.0	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2,4,5-Trichlorophenol	329 U	U	ug/kg	329	24.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851004** Date Collected: 10/23/2015 12:50 Matrix: Solid

Sample ID: **CS-LF006** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Trichlorophenol	243 U	U	ug/kg	243	24.3	SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	75.2		%	37 - 123		SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2-Fluorobiphenyl (S)	60.9		%	45 - 105		SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
2-Fluorophenol (S)	64.2		%	35 - 104		SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Nitrobenzene-d5 (S)	62.4		%	41 - 110		SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Phenol-d5 (S)	61.4		%	40 - 100		SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
Terphenyl-d14 (S)	55.1		%	38 - 113		SW846 8270D	10/26/15	BS	10/27/15 15:53	CGS	A
PCBs											
Total Polychlorinated Biphenyl	0.040 U	U	mg/kg	0.040	0.040	SW846 8082A	10/26/15	BS	10/26/15 16:47	EGO	A
Aroclor-1016	0.040 U	U1	mg/kg	0.040	0.0073	SW846 8082A	10/26/15	BS	10/26/15 16:47	EGO	A
Aroclor-1221	0.040 U	U	mg/kg	0.040	0.0037	SW846 8082A	10/26/15	BS	10/26/15 16:47	EGO	A
Aroclor-1232	0.040 U	U	mg/kg	0.040	0.0073	SW846 8082A	10/26/15	BS	10/26/15 16:47	EGO	A
Aroclor-1242	0.040 U	U	mg/kg	0.040	0.011	SW846 8082A	10/26/15	BS	10/26/15 16:47	EGO	A
Aroclor-1248	0.040 U	U	mg/kg	0.040	0.0073	SW846 8082A	10/26/15	BS	10/26/15 16:47	EGO	A
Aroclor-1254	0.040 U	U	mg/kg	0.040	0.0073	SW846 8082A	10/26/15	BS	10/26/15 16:47	EGO	A
Aroclor-1260	0.040 U	U2	mg/kg	0.040	0.0073	SW846 8082A	10/26/15	BS	10/26/15 16:47	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	73.4		%	46 - 120		SW846 8082A	10/26/15	BS	10/26/15 16:47	EGO	A
Tetrachloro-m-xylene (S)	74.2		%	52 - 115		SW846 8082A	10/26/15	BS	10/26/15 16:47	EGO	A
PESTICIDES											
Aldrin	2.1 U	U	ug/kg	2.1	0.67	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
alpha-BHC	2.1 U	U	ug/kg	2.1	0.18	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
beta-BHC	2.1 U	U	ug/kg	2.1	0.22	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
delta-BHC	2.1 U	U	ug/kg	2.1	0.16	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
gamma-BHC	2.1 U	U	ug/kg	2.1	0.17	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
alpha-Chlordane	2.1 U	U	ug/kg	2.1	0.22	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
gamma-Chlordane	2.1 U	U	ug/kg	2.1	0.35	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
4,4'-DDD	4.0 U	U	ug/kg	4.0	0.33	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
4,4'-DDE	4.0 U	U	ug/kg	4.0	0.55	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
4,4'-DDT	13.2		ug/kg	4.0	0.46	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Dieldrin	4.0 U	U	ug/kg	4.0	0.46	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Endosulfan I	2.1 U	U	ug/kg	2.1	0.26	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Endosulfan II	4.0 U	U	ug/kg	4.0	0.84	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Endosulfan Sulfate	4.0 U	U	ug/kg	4.0	0.27	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Endrin	4.0 U	U	ug/kg	4.0	0.29	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851004** Date Collected: 10/23/2015 12:50 Matrix: Solid

Sample ID: **CS-LF006** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Endrin Aldehyde	4.0 U	U	ug/kg	4.0	0.44	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Endrin Ketone	4.0 U	U	ug/kg	4.0	0.56	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Heptachlor	2.1 U	U	ug/kg	2.1	0.21	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Heptachlor Epoxide	2.1 U	U	ug/kg	2.1	0.21	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Methoxychlor	4.0 U	U	ug/kg	4.0	0.54	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Toxaphene	42.6 U	U	ug/kg	42.6	7.1	SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	74.6		%	30 - 135		SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
Tetrachloro-m-xylene (S)	54.4		%	30 - 111		SW846 8081B	10/26/15	BS	10/28/15 11:57	RWS	A
HERBICIDES											
2,4-D	82.9 U	U	ug/kg	82.9	32.2	SW846 8151A	10/26/15	RMP	10/27/15 16:32	KJH	A
2,4-DB	82.9 U	U	ug/kg	82.9	44.5	SW846 8151A	10/26/15	RMP	10/27/15 16:32	KJH	A
Dalapon	82.9 U	U	ug/kg	82.9	21.0	SW846 8151A	10/26/15	RMP	10/27/15 16:32	KJH	A
Dicamba	82.9 U	U	ug/kg	82.9	29.7	SW846 8151A	10/26/15	RMP	10/27/15 16:32	KJH	A
Dichloroprop	82.9 U	U	ug/kg	82.9	33.4	SW846 8151A	10/26/15	RMP	10/27/15 16:32	KJH	A
Dinoseb	207 U	U	ug/kg	207	42.1	SW846 8151A	10/26/15	RMP	10/27/15 16:32	KJH	A
4-Nitrophenol	82.9 U	U	ug/kg	82.9	28.5	SW846 8151A	10/26/15	RMP	10/27/15 16:32	KJH	A
2,4,5-T	82.9 U	U	ug/kg	82.9	34.6	SW846 8151A	10/26/15	RMP	10/27/15 16:32	KJH	A
2,4,5-TP	82.9 U	U	ug/kg	82.9	38.3	SW846 8151A	10/26/15	RMP	10/27/15 16:32	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	66.2		%	30 - 153		SW846 8151A	10/26/15	RMP	10/27/15 16:32	KJH	A
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	11/4/15	MLM	11/5/15 07:34	LJF	A
Hexavalent Chromium	2.5 U	U	mg/kg	2.5	0.48	SW846 7196A	10/27/15	MLM	10/28/15 15:00	MLM	A
Ignitability	not ignitable	59				SW846 1030			11/6/15 10:00	BPC	A
Moisture	20.5		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
Sulfide, Reactive	6.4		ppm	6.2	1.2	SW846 7.3	11/4/15	MLM	11/5/15 19:00	MLM	A
Total Solids	79.5		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
METALS											
Aluminum, Total	8100		mg/kg	12.3	4.1	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Antimony, Total	2.5 U	U	mg/kg	2.5	0.82	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Arsenic, Total	1.0J	J	mg/kg	2.5	0.82	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Barium, Total	29.7		mg/kg	1.2	0.41	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Beryllium, Total	0.44J	J	mg/kg	1.2	0.41	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Cadmium, Total	0.62 U	U	mg/kg	0.62	0.21	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851004** Date Collected: 10/23/2015 12:50 Matrix: Solid

Sample ID: **CS-LF006** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Calcium, Total	304		mg/kg	12.3	4.1	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Chromium, Total	7.0		mg/kg	1.2	0.41	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Cobalt, Total	3.5		mg/kg	1.2	0.41	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Copper, Total	7.3		mg/kg	2.5	0.82	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Iron, Total	11400		mg/kg	12.3	4.1	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Lead, Total	6.4		mg/kg	2.5	0.82	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Magnesium, Total	1160	3	mg/kg	12.3	4.1	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Manganese, Total	442		mg/kg	1.2	0.41	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Mercury, Total	0.053 U	U	mg/kg	0.053	0.017	SW846 7471B	10/28/15	MNP	10/28/15 14:05	MNP	A2
Nickel, Total	7.9		mg/kg	2.5	0.82	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Potassium, Total	325		mg/kg	61.6	20.6	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Selenium, Total	6.2 U	U	mg/kg	6.2	2.1	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Silver, Total	0.62 U	U	mg/kg	0.62	0.21	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Sodium, Total	40.4J	J	mg/kg	61.6	20.6	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Thallium, Total	3.7 U	U	mg/kg	3.7	1.2	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Vanadium, Total	14.7		mg/kg	1.2	0.41	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1
Zinc, Total	25.4		mg/kg	2.5	0.82	SW846 6010C	10/25/15	JPS	10/27/15 02:34	TSS	A1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851005** Date Collected: 10/23/2015 13:00 Matrix: Solid

Sample ID: **CS-LF005** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	720 U	U	ug/kg	720	223	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Benzene	72.0 U	U	ug/kg	72.0	16.6	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Bromochloromethane	72.0 U	U	ug/kg	72.0	23.0	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Bromodichloromethane	72.0 U	U	ug/kg	72.0	19.4	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Bromoform	72.0 U	U	ug/kg	72.0	28.8	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Bromomethane	72.0 U	U	ug/kg	72.0	28.1	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
2-Butanone	720 U	U	ug/kg	720	130	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Carbon Disulfide	72.0 U	U	ug/kg	72.0	16.6	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Carbon Tetrachloride	72.0 U	U	ug/kg	72.0	22.3	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Chlorobenzene	72.0 U	U	ug/kg	72.0	13.7	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Chlorodibromomethane	72.0 U	U	ug/kg	72.0	32.4	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Chloroethane	72.0 U	U	ug/kg	72.0	23.8	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Chloroform	72.0 U	U	ug/kg	72.0	15.1	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Chloromethane	72.0 U	U	ug/kg	72.0	22.3	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Cyclohexane	72.0 U	U	ug/kg	72.0	20.9	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,2-Dibromo-3-chloropropane	504 U	U	ug/kg	504	108	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,2-Dibromoethane	72.0 U	U	ug/kg	72.0	20.2	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,2-Dichlorobenzene	72.0 U	U	ug/kg	72.0	27.4	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,3-Dichlorobenzene	72.0 U	U	ug/kg	72.0	18.0	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,4-Dichlorobenzene	72.0 U	U	ug/kg	72.0	19.4	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Dichlorodifluoromethane	72.0 U	U	ug/kg	72.0	23.8	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,1-Dichloroethane	72.0 U	U	ug/kg	72.0	20.2	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,2-Dichloroethane	72.0 U	U	ug/kg	72.0	23.0	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,1-Dichloroethene	72.0 U	U	ug/kg	72.0	20.9	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
cis-1,2-Dichloroethene	72.0 U	U	ug/kg	72.0	23.0	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
trans-1,2-Dichloroethene	72.0 U	U	ug/kg	72.0	18.7	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,2-Dichloropropane	72.0 U	U	ug/kg	72.0	17.3	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
cis-1,3-Dichloropropene	72.0 U	U	ug/kg	72.0	22.3	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
trans-1,3-Dichloropropene	72.0 U	U	ug/kg	72.0	20.9	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,4-Dioxane	23000 U	U	ug/kg	23000	4240	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Ethylbenzene	72.0 U	U	ug/kg	72.0	24.5	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Freon 113	72.0 U	U	ug/kg	72.0	18.7	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
2-Hexanone	360 U	U	ug/kg	360	93.6	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Isopropylbenzene	72.0 U	U	ug/kg	72.0	15.8	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Methyl acetate	144 U	U	ug/kg	144	23.0	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Methyl cyclohexane	72.0 U	U	ug/kg	72.0	21.6	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851005** Date Collected: 10/23/2015 13:00 Matrix: Solid

Sample ID: **CS-LF005** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	72.0 U	U	ug/kg	72.0	23.8	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
4-Methyl-2-Pentanone(MIBK)	360 U	U	ug/kg	360	108	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Methylene Chloride	70.0J	J	ug/kg	72.0	32.4	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Styrene	72.0 U	U	ug/kg	72.0	17.3	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,1,2,2-Tetrachloroethane	72.0 U	U	ug/kg	72.0	24.5	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Tetrachloroethene	72.0 U	U	ug/kg	72.0	25.2	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Toluene	72.0 U	U	ug/kg	72.0	16.6	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,2,3-Trichlorobenzene	288 U	U	ug/kg	288	67.0	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,2,4-Trichlorobenzene	216 U	U	ug/kg	216	59.1	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,1,1-Trichloroethane	72.0 U	U	ug/kg	72.0	15.8	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
1,1,2-Trichloroethane	72.0 U	U	ug/kg	72.0	23.8	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Trichloroethene	72.0 U	U	ug/kg	72.0	23.8	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Trichlorofluoromethane	72.0 U	U	ug/kg	72.0	17.3	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Vinyl Chloride	72.0 U	U	ug/kg	72.0	21.6	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
o-Xylene	72.0 U	U	ug/kg	72.0	23.8	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
mp-Xylene	144 U	U	ug/kg	144	37.4	SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.7		%	71 - 146		SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
4-Bromofluorobenzene (S)	109		%	46 - 138		SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Dibromofluoromethane (S)	88.9		%	42 - 143		SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
Toluene-d8 (S)	123		%	54 - 141		SW846 8260C	10/24/15	CPK	10/29/15 02:23	CJG	A3
SEMIVOLATILES											
Acenaphthene	110 U	U	ug/kg	110	16.5	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Acenaphthylene	110 U	U	ug/kg	110	12.1	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Acetophenone	110 U	U	ug/kg	110	11.0	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Aniline	297 U	U	ug/kg	297	152	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Anthracene	110 U	U	ug/kg	110	11.0	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Atrazine	110 U	U	ug/kg	110	28.6	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Benzaldehyde	297 U	U	ug/kg	297	46.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Benzidine	881 U	U	ug/kg	881	434	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Benzo(a)anthracene	110 U	U	ug/kg	110	16.5	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Benzo(a)pyrene	110 U	U	ug/kg	110	17.6	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Benzo(b)fluoranthene	110 U	U	ug/kg	110	26.4	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Benzo(g,h,i)perylene	110 U	U	ug/kg	110	23.1	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Benzoic acid	595 U	U	ug/kg	595	134	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Benzo(k)fluoranthene	110 U	U	ug/kg	110	20.9	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Benzyl Alcohol	297 U	U	ug/kg	297	101	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851005** Date Collected: 10/23/2015 13:00 Matrix: Solid

Sample ID: **CS-LF005** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Biphenyl	110 U	U	ug/kg	110	14.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
4-Bromophenyl-phenylether	110 U	U	ug/kg	110	25.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Butylbenzylphthalate	110 U	U	ug/kg	110	28.6	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Caprolactam	297 U	U	ug/kg	297	80.4	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Carbazole	110 U	U	ug/kg	110	14.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
4-Chloro-3-methylphenol	297 U	U	ug/kg	297	16.5	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
4-Chloroaniline	297 U	U	ug/kg	297	148	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
bis(2-Chloroethoxy)methane	110 U	U	ug/kg	110	16.5	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
bis(2-Chloroethyl)ether	110 U	U	ug/kg	110	22.0	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
bis(2-Chloroisopropyl)ether	110 U	U	ug/kg	110	27.5	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2-Chloronaphthalene	110 U	U	ug/kg	110	15.4	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2-Chlorophenol	297 U	U	ug/kg	297	19.8	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
4-Chlorophenyl-phenylether	110 U	U	ug/kg	110	17.6	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Chrysene	110 U	U	ug/kg	110	14.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
mp-Cresol	297 U	U	ug/kg	297	16.5	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
o-Cresol	297 U	U	ug/kg	297	24.2	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Di-n-Butylphthalate	110 U	U	ug/kg	110	16.5	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Di-n-Octylphthalate	297 U	U	ug/kg	297	43.0	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Dibenzo(a,h)anthracene	110 U	U	ug/kg	110	13.2	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Dibenzofuran	110 U	U	ug/kg	110	12.1	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
1,2-Dichlorobenzene	110 U	U	ug/kg	110	14.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
1,3-Dichlorobenzene	110 U	U	ug/kg	110	17.6	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
1,4-Dichlorobenzene	110 U	U	ug/kg	110	18.7	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
3,3-Dichlorobenzidine	165 U	U	ug/kg	165	77.1	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2,4-Dichlorophenol	220 U	U	ug/kg	220	19.8	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2,6-Dichlorophenol	297 U	U	ug/kg	297	25.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Diethylphthalate	110 U	U	ug/kg	110	14.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Dimethoate	297 U	U	ug/kg	297	15.4	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2,4-Dimethylphenol	297 U	U	ug/kg	297	84.8	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Dimethylphthalate	110 U	U	ug/kg	110	17.6	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
1,2-Dinitrobenzene	110 U	U	ug/kg	110	26.4	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
1,4-Dinitrobenzene	110 U	U	ug/kg	110	25.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2,4-Dinitrophenol	220 U	U	ug/kg	220	70.5	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2,4-Dinitrotoluene	110 U	U	ug/kg	110	32.0	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2,6-Dinitrotoluene	110 U	U	ug/kg	110	26.4	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Diphenylamine	110 U	U	ug/kg	110	15.4	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
1,2-Diphenylhydrazine	110 U	U	ug/kg	110	14.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
bis(2-Ethylhexyl)phthalate	110 U	U	ug/kg	110	25.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851005** Date Collected: 10/23/2015 13:00 Matrix: Solid

Sample ID: **CS-LF005** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Fluoranthene	110 U	U	ug/kg	110	20.9	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Fluorene	110 U	U	ug/kg	110	22.0	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Hexachlorobenzene	110 U	U	ug/kg	110	20.9	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Hexachlorobutadiene	110 U	U	ug/kg	110	28.6	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Hexachlorocyclopentadiene	297 U	U	ug/kg	297	95.9	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Hexachloroethane	110 U	U	ug/kg	110	18.7	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Indeno(1,2,3-cd)pyrene	110 U	U	ug/kg	110	19.8	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Isophorone	110 U	U	ug/kg	110	17.6	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2-Methyl-4,6-dinitrophenol	297 U	U	ug/kg	297	63.9	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2-Methylnaphthalene	110 U	U	ug/kg	110	17.6	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2-Naphthylamine	297 U	U	ug/kg	297	72.7	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Naphthalene	110 U	U	ug/kg	110	26.4	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2-Nitroaniline	297 U	U	ug/kg	297	143	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
3-Nitroaniline	397 U	U	ug/kg	397	195	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
4-Nitroaniline	309 U	U	ug/kg	309	154	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Nitrobenzene	110 U	U	ug/kg	110	23.1	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2-Nitrophenol	297 U	U	ug/kg	297	29.7	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
4-Nitrophenol	297 U	U	ug/kg	297	111	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
N-Nitrosodi-n-butylamine	110 U	U	ug/kg	110	25.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
N-Nitrosodiethylamine	110 U	U	ug/kg	110	22.0	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
N-Nitrosodimethylamine	110 U	U	ug/kg	110	39.7	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
N-Nitroso-di-n-propylamine	110 U	U	ug/kg	110	18.7	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
N-Nitrosodiphenylamine	110 U	U	ug/kg	110	18.7	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
N-Nitrosopyrrolidine	110 U	U	ug/kg	110	20.9	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Pentachlorobenzene	110 U	U	ug/kg	110	26.4	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Pentachlorophenol	220 U	U	ug/kg	220	39.7	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Phenanthrene	110 U	U	ug/kg	110	15.4	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Phenol	297 U	U	ug/kg	297	16.5	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Pyrene	110 U	U	ug/kg	110	19.8	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Pyridine	297 U	U	ug/kg	297	26.4	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Resorcinol	110 U	U	ug/kg	110	25.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
1,2,4,5-Tetrachlorobenzene	110 U	U	ug/kg	110	16.5	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2,3,4,6-Tetrachlorophenol	297 U	U	ug/kg	297	23.1	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
1,2,4-Trichlorobenzene	110 U	U	ug/kg	110	25.3	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2,4,5-Trichlorophenol	297 U	U	ug/kg	297	22.0	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2,4,6-Trichlorophenol	220 U	U	ug/kg	220	22.0	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	99.1		%	37 - 123	SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851005** Date Collected: 10/23/2015 13:00 Matrix: Solid

Sample ID: **CS-LF005** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	75.2		%	45 - 105		SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
2-Fluorophenol (S)	81.7		%	35 - 104		SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Nitrobenzene-d5 (S)	70.1		%	41 - 110		SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Phenol-d5 (S)	80		%	40 - 100		SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
Terphenyl-d14 (S)	81.7		%	38 - 113		SW846 8270D	10/26/15	BS	10/27/15 15:29	CGS	A
PCBs											
Total Polychlorinated Biphenyl	0.038 U	U	mg/kg	0.038	0.038	SW846 8082A	10/27/15	BS	10/27/15 15:56	EGO	A
Aroclor-1016	0.038 U	U	mg/kg	0.038	0.0069	SW846 8082A	10/27/15	BS	10/27/15 15:56	EGO	A
Aroclor-1221	0.038 U	U	mg/kg	0.038	0.0035	SW846 8082A	10/27/15	BS	10/27/15 15:56	EGO	A
Aroclor-1232	0.038 U	U	mg/kg	0.038	0.0069	SW846 8082A	10/27/15	BS	10/27/15 15:56	EGO	A
Aroclor-1242	0.038 U	U	mg/kg	0.038	0.010	SW846 8082A	10/27/15	BS	10/27/15 15:56	EGO	A
Aroclor-1248	0.038 U	U	mg/kg	0.038	0.0069	SW846 8082A	10/27/15	BS	10/27/15 15:56	EGO	A
Aroclor-1254	0.038 U	U	mg/kg	0.038	0.0069	SW846 8082A	10/27/15	BS	10/27/15 15:56	EGO	A
Aroclor-1260	0.038 U	U	mg/kg	0.038	0.0069	SW846 8082A	10/27/15	BS	10/27/15 15:56	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	53.8		%	46 - 120		SW846 8082A	10/27/15	BS	10/27/15 15:56	EGO	A
Tetrachloro-m-xylene (S)	56.5		%	52 - 115		SW846 8082A	10/27/15	BS	10/27/15 15:56	EGO	A
PESTICIDES											
Aldrin	2.0 U	U	ug/kg	2.0	0.63	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
alpha-BHC	2.0 U	U	ug/kg	2.0	0.17	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
beta-BHC	2.0 U	U	ug/kg	2.0	0.21	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
delta-BHC	2.0 U	U	ug/kg	2.0	0.15	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
gamma-BHC	2.0 U	U	ug/kg	2.0	0.16	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
alpha-Chlordane	2.0 U	U	ug/kg	2.0	0.21	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
gamma-Chlordane	2.0 U	U	ug/kg	2.0	0.33	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
4,4'-DDD	5.8		ug/kg	3.8	0.31	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
4,4'-DDE	3.8 U	U	ug/kg	3.8	0.52	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
4,4'-DDT	9.3		ug/kg	3.8	0.44	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Dieldrin	3.8 U	U	ug/kg	3.8	0.44	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Endosulfan I	2.0 U	U	ug/kg	2.0	0.24	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Endosulfan II	3.8 U	U	ug/kg	3.8	0.80	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Endosulfan Sulfate	3.8 U	U	ug/kg	3.8	0.25	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Endrin	3.8 U	U	ug/kg	3.8	0.28	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Endrin Aldehyde	3.8 U	U	ug/kg	3.8	0.41	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Endrin Ketone	3.8 U	U	ug/kg	3.8	0.53	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Heptachlor	2.0 U	U	ug/kg	2.0	0.20	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851005** Date Collected: 10/23/2015 13:00 Matrix: Solid

Sample ID: **CS-LF005** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Heptachlor Epoxide	2.0 U	U	ug/kg	2.0	0.20	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Methoxychlor	3.8 U	U	ug/kg	3.8	0.51	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Toxaphene	40.3 U	U	ug/kg	40.3	6.7	SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	61.7		%	30 - 135		SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
Tetrachloro-m-xylene (S)	64.3		%	30 - 111		SW846 8081B	10/27/15	BS	10/28/15 12:13	RWS	A
HERBICIDES											
2,4-D	78.2 U	U	ug/kg	78.2	30.4	SW846 8151A	10/26/15	RMP	10/28/15 07:19	KJH	A
2,4-DB	78.2 U	U	ug/kg	78.2	42.0	SW846 8151A	10/26/15	RMP	10/28/15 07:19	KJH	A
Dalapon	78.2 U	U	ug/kg	78.2	19.8	SW846 8151A	10/26/15	RMP	10/28/15 07:19	KJH	A
Dicamba	78.2 U	U	ug/kg	78.2	28.0	SW846 8151A	10/26/15	RMP	10/28/15 07:19	KJH	A
Dichloroprop	78.2 U	U	ug/kg	78.2	31.5	SW846 8151A	10/26/15	RMP	10/28/15 07:19	KJH	A
Dinoseb	195 U	U	ug/kg	195	39.7	SW846 8151A	10/26/15	RMP	10/28/15 07:19	KJH	A
4-Nitrophenol	78.2 U	U	ug/kg	78.2	26.9	SW846 8151A	10/26/15	RMP	10/28/15 07:19	KJH	A
2,4,5-T	78.2 U	U	ug/kg	78.2	32.7	SW846 8151A	10/26/15	RMP	10/28/15 07:19	KJH	A
2,4,5-TP	78.2 U	U	ug/kg	78.2	36.2	SW846 8151A	10/26/15	RMP	10/28/15 07:19	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	71.7		%	30 - 153		SW846 8151A	10/26/15	RMP	10/28/15 07:19	KJH	A
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	11/4/15	MLM	11/5/15 07:34	LJF	A
Hexavalent Chromium	2.3 U	U	mg/kg	2.3	0.44	SW846 7196A	10/27/15	MLM	10/28/15 15:00	MLM	A
Ignitability	not ignitable	7				SW846 1030			11/6/15 10:00	BPC	A
Moisture	14.9		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
Sulfide, Reactive	8.4		ppm	6.2	1.2	SW846 7.3	11/4/15	MLM	11/5/15 19:00	MLM	A
Total Solids	85.1		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
METALS											
Aluminum, Total	6130		mg/kg	10.3	3.4	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Antimony, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Arsenic, Total	1.2J	J	mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Barium, Total	15.9		mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Beryllium, Total	1.0 U	U	mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Cadmium, Total	0.52 U	U	mg/kg	0.52	0.17	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Calcium, Total	174		mg/kg	10.3	3.4	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Chromium, Total	5.6		mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Cobalt, Total	3.2		mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851005** Date Collected: 10/23/2015 13:00 Matrix: Solid

Sample ID: **CS-LF005** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Copper, Total	8.9		mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Iron, Total	10100		mg/kg	10.3	3.4	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Lead, Total	2.9		mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Magnesium, Total	1150		mg/kg	10.3	3.4	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Manganese, Total	113		mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Mercury, Total	0.052 U	U	mg/kg	0.052	0.017	SW846 7471B	10/28/15	MNP	10/28/15 14:11	MNP	A2
Nickel, Total	7.6		mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Potassium, Total	118		mg/kg	51.5	17.2	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Selenium, Total	5.2 U	U	mg/kg	5.2	1.7	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Silver, Total	0.52 U	U	mg/kg	0.52	0.17	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Sodium, Total	51.5 U	U	mg/kg	51.5	17.2	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Thallium, Total	3.1 U	U	mg/kg	3.1	1.0	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Vanadium, Total	10.8		mg/kg	1.0	0.34	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1
Zinc, Total	23.9		mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 02:44	TSS	A1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851006** Date Collected: 10/23/2015 13:08 Matrix: Solid

Sample ID: **CS-LF011** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	682 U	U	ug/kg	682	211	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Benzene	68.2 U	U	ug/kg	68.2	15.7	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Bromochloromethane	68.2 U	U	ug/kg	68.2	21.8	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Bromodichloromethane	68.2 U	U	ug/kg	68.2	18.4	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Bromoform	68.2 U	U	ug/kg	68.2	27.3	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Bromomethane	68.2 U	U	ug/kg	68.2	26.6	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
2-Butanone	682 U	U	ug/kg	682	123	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Carbon Disulfide	68.2 U	U	ug/kg	68.2	15.7	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Carbon Tetrachloride	68.2 U	U	ug/kg	68.2	21.1	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Chlorobenzene	68.2 U	U	ug/kg	68.2	13.0	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Chlorodibromomethane	68.2 U	U	ug/kg	68.2	30.7	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Chloroethane	68.2 U	U	ug/kg	68.2	22.5	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Chloroform	68.2 U	U	ug/kg	68.2	14.3	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Chloromethane	68.2 U	U	ug/kg	68.2	21.1	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Cyclohexane	68.2 U	U	ug/kg	68.2	19.8	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,2-Dibromo-3-chloropropane	477 U	U	ug/kg	477	102	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,2-Dibromoethane	68.2 U	U	ug/kg	68.2	19.1	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,2-Dichlorobenzene	68.2 U	U	ug/kg	68.2	25.9	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,3-Dichlorobenzene	68.2 U	U	ug/kg	68.2	17.0	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,4-Dichlorobenzene	68.2 U	U	ug/kg	68.2	18.4	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Dichlorodifluoromethane	68.2 U	U	ug/kg	68.2	22.5	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,1-Dichloroethane	68.2 U	U	ug/kg	68.2	19.1	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,2-Dichloroethane	68.2 U	U	ug/kg	68.2	21.8	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,1-Dichloroethene	68.2 U	U	ug/kg	68.2	19.8	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
cis-1,2-Dichloroethene	68.2 U	U	ug/kg	68.2	21.8	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
trans-1,2-Dichloroethene	68.2 U	U	ug/kg	68.2	17.7	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,2-Dichloropropane	68.2 U	U	ug/kg	68.2	16.4	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
cis-1,3-Dichloropropene	68.2 U	U	ug/kg	68.2	21.1	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
trans-1,3-Dichloropropene	68.2 U	U	ug/kg	68.2	19.8	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,4-Dioxane	21800 U	U	ug/kg	21800	4020	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Ethylbenzene	68.2 U	U	ug/kg	68.2	23.2	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Freon 113	68.2 U	U	ug/kg	68.2	17.7	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
2-Hexanone	341 U	U	ug/kg	341	88.6	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Isopropylbenzene	68.2 U	U	ug/kg	68.2	15.0	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Methyl acetate	136 U	U	ug/kg	136	21.8	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Methyl cyclohexane	68.2 U	U	ug/kg	68.2	20.5	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851006** Date Collected: 10/23/2015 13:08 Matrix: Solid

Sample ID: **CS-LF011** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	68.2 U	U	ug/kg	68.2	22.5	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
4-Methyl-2-Pentanone(MIBK)	341 U	U	ug/kg	341	102	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Methylene Chloride	122		ug/kg	68.2	30.7	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Styrene	68.2 U	U	ug/kg	68.2	16.4	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,1,2,2-Tetrachloroethane	68.2 U	U	ug/kg	68.2	23.2	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Tetrachloroethene	68.2 U	U	ug/kg	68.2	23.9	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Toluene	68.2 U	U	ug/kg	68.2	15.7	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,2,3-Trichlorobenzene	273 U	U	ug/kg	273	63.4	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,2,4-Trichlorobenzene	205 U	U	ug/kg	205	55.9	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,1,1-Trichloroethane	68.2 U	U	ug/kg	68.2	15.0	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
1,1,2-Trichloroethane	68.2 U	U	ug/kg	68.2	22.5	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Trichloroethene	68.2 U	U	ug/kg	68.2	22.5	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Trichlorofluoromethane	68.2 U	U	ug/kg	68.2	16.4	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Vinyl Chloride	68.2 U	U	ug/kg	68.2	20.5	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
o-Xylene	68.2 U	U	ug/kg	68.2	22.5	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
mp-Xylene	136 U	U	ug/kg	136	35.5	SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.7		%	71 - 146		SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
4-Bromofluorobenzene (S)	107		%	46 - 138		SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Dibromofluoromethane (S)	89.3		%	42 - 143		SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
Toluene-d8 (S)	121		%	54 - 141		SW846 8260C	10/24/15	CPK	10/29/15 02:46	CJG	A3
SEMIVOLATILES											
Acenaphthene	123 U	U	ug/kg	123	18.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Acenaphthylene	123 U	U	ug/kg	123	13.5	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Acetophenone	123 U	U	ug/kg	123	12.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Aniline	332 U	U	ug/kg	332	170	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Anthracene	123 U	U	ug/kg	123	12.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Atrazine	123 U	U	ug/kg	123	32.0	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Benzaldehyde	332 U	U	ug/kg	332	51.7	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Benzidine	984 U	U	ug/kg	984	485	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Benzo(a)anthracene	123 U	U	ug/kg	123	18.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Benzo(a)pyrene	123 U	U	ug/kg	123	19.7	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Benzo(b)fluoranthene	123 U	U	ug/kg	123	29.5	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Benzo(g,h,i)perylene	123 U	U	ug/kg	123	25.8	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Benzoic acid	161J	J	ug/kg	664	150	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Benzo(k)fluoranthene	123 U	U	ug/kg	123	23.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Benzyl Alcohol	332 U	U	ug/kg	332	113	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851006** Date Collected: 10/23/2015 13:08 Matrix: Solid

Sample ID: **CS-LF011** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Biphenyl	123 U	U	ug/kg	123	16.0	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
4-Bromophenyl-phenylether	123 U	U	ug/kg	123	28.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Butylbenzylphthalate	123 U	U	ug/kg	123	32.0	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Caprolactam	332 U	U	ug/kg	332	89.8	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Carbazole	123 U	U	ug/kg	123	16.0	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
4-Chloro-3-methylphenol	332 U	U	ug/kg	332	18.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
4-Chloroaniline	332 U	U	ug/kg	332	165	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
bis(2-Chloroethoxy)methane	123 U	U	ug/kg	123	18.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
bis(2-Chloroethyl)ether	123 U	U	ug/kg	123	24.6	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
bis(2-Chloroisopropyl)ether	123 U	U	ug/kg	123	30.7	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2-Chloronaphthalene	123 U	U	ug/kg	123	17.2	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2-Chlorophenol	332 U	U	ug/kg	332	22.1	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
4-Chlorophenyl-phenylether	123 U	U	ug/kg	123	19.7	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Chrysene	123 U	U	ug/kg	123	16.0	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
mp-Cresol	332 U	U	ug/kg	332	18.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
o-Cresol	332 U	U	ug/kg	332	27.1	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Di-n-Butylphthalate	79.9J	J	ug/kg	123	18.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Di-n-Octylphthalate	332 U	U	ug/kg	332	48.0	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Dibenzo(a,h)anthracene	123 U	U	ug/kg	123	14.8	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Dibenzofuran	123 U	U	ug/kg	123	13.5	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
1,2-Dichlorobenzene	123 U	U	ug/kg	123	16.0	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
1,3-Dichlorobenzene	123 U	U	ug/kg	123	19.7	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
1,4-Dichlorobenzene	123 U	U	ug/kg	123	20.9	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
3,3-Dichlorobenzidine	184 U	U	ug/kg	184	86.1	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2,4-Dichlorophenol	246 U	U	ug/kg	246	22.1	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2,6-Dichlorophenol	332 U	U	ug/kg	332	28.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Diethylphthalate	123 U	U	ug/kg	123	16.0	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Dimethoate	332 U	U	ug/kg	332	17.2	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2,4-Dimethylphenol	332 U	U	ug/kg	332	94.7	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Dimethylphthalate	123 U	U	ug/kg	123	19.7	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
1,2-Dinitrobenzene	123 U	U	ug/kg	123	29.5	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
1,4-Dinitrobenzene	123 U	U	ug/kg	123	28.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2,4-Dinitrophenol	246 U	U	ug/kg	246	78.7	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2,4-Dinitrotoluene	123 U	U	ug/kg	123	35.7	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2,6-Dinitrotoluene	123 U	U	ug/kg	123	29.5	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Diphenylamine	123 U	U	ug/kg	123	17.2	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
1,2-Diphenylhydrazine	123 U	U	ug/kg	123	16.0	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
bis(2-Ethylhexyl)phthalate	123 U	U	ug/kg	123	28.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851006** Date Collected: 10/23/2015 13:08 Matrix: Solid

Sample ID: **CS-LF011** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Fluoranthene	123 U	U	ug/kg	123	23.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Fluorene	381		ug/kg	123	24.6	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Hexachlorobenzene	123 U	U	ug/kg	123	23.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Hexachlorobutadiene	123 U	U	ug/kg	123	32.0	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Hexachlorocyclopentadiene	332 U	U	ug/kg	332	107	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Hexachloroethane	123 U	U	ug/kg	123	20.9	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Indeno(1,2,3-cd)pyrene	123 U	U	ug/kg	123	22.1	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Isophorone	123 U	U	ug/kg	123	19.7	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2-Methyl-4,6-dinitrophenol	332 U	U	ug/kg	332	71.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2-Methylnaphthalene	271		ug/kg	123	19.7	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2-Naphthylamine	332 U	U	ug/kg	332	81.2	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Naphthalene	123 U	U	ug/kg	123	29.5	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2-Nitroaniline	332 U	U	ug/kg	332	160	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
3-Nitroaniline	443 U	U	ug/kg	443	218	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
4-Nitroaniline	344 U	U	ug/kg	344	172	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Nitrobenzene	123 U	U	ug/kg	123	25.8	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2-Nitrophenol	332 U	U	ug/kg	332	33.2	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
4-Nitrophenol	332 U	U	ug/kg	332	124	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
N-Nitrosodi-n-butylamine	123 U	U	ug/kg	123	28.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
N-Nitrosodiethylamine	123 U	U	ug/kg	123	24.6	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
N-Nitrosodimethylamine	123 U	U	ug/kg	123	44.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
N-Nitroso-di-n-propylamine	123 U	U	ug/kg	123	20.9	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
N-Nitrosodiphenylamine	123 U	U	ug/kg	123	20.9	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
N-Nitrosopyrrolidine	123 U	U	ug/kg	123	23.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Pentachlorobenzene	123 U	U	ug/kg	123	29.5	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Pentachlorophenol	246 U	U	ug/kg	246	44.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Phenanthrene	246		ug/kg	123	17.2	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Phenol	332 U	U	ug/kg	332	18.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Pyrene	123 U	U	ug/kg	123	22.1	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Pyridine	332 U	U	ug/kg	332	29.5	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Resorcinol	123 U	U	ug/kg	123	28.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
1,2,4,5-Tetrachlorobenzene	123 U	U	ug/kg	123	18.4	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2,3,4,6-Tetrachlorophenol	332 U	U	ug/kg	332	25.8	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
1,2,4-Trichlorobenzene	123 U	U	ug/kg	123	28.3	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2,4,5-Trichlorophenol	332 U	U	ug/kg	332	24.6	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2,4,6-Trichlorophenol	246 U	U	ug/kg	246	24.6	SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	66		%	37 - 123		SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851006** Date Collected: 10/23/2015 13:08 Matrix: Solid

Sample ID: **CS-LF011** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	52.3		%	45 - 105		SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
2-Fluorophenol (S)	65.8		%	35 - 104		SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Nitrobenzene-d5 (S)	62.8		%	41 - 110		SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Phenol-d5 (S)	64.1		%	40 - 100		SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
Terphenyl-d14 (S)	59.2		%	38 - 113		SW846 8270D	10/26/15	BS	10/27/15 15:04	CGS	A
PCBs											
Total Polychlorinated Biphenyl	0.040 U	U	mg/kg	0.040	0.040	SW846 8082A	10/27/15	BS	10/27/15 16:07	EGO	A
Aroclor-1016	0.040 U	U	mg/kg	0.040	0.0072	SW846 8082A	10/27/15	BS	10/27/15 16:07	EGO	A
Aroclor-1221	0.040 U	U	mg/kg	0.040	0.0036	SW846 8082A	10/27/15	BS	10/27/15 16:07	EGO	A
Aroclor-1232	0.040 U	U	mg/kg	0.040	0.0072	SW846 8082A	10/27/15	BS	10/27/15 16:07	EGO	A
Aroclor-1242	0.040 U	U	mg/kg	0.040	0.011	SW846 8082A	10/27/15	BS	10/27/15 16:07	EGO	A
Aroclor-1248	0.040 U	U	mg/kg	0.040	0.0072	SW846 8082A	10/27/15	BS	10/27/15 16:07	EGO	A
Aroclor-1254	0.040 U	U	mg/kg	0.040	0.0072	SW846 8082A	10/27/15	BS	10/27/15 16:07	EGO	A
Aroclor-1260	0.040 U	U	mg/kg	0.040	0.0072	SW846 8082A	10/27/15	BS	10/27/15 16:07	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	52.2		%	46 - 120		SW846 8082A	10/27/15	BS	10/27/15 16:07	EGO	A
Tetrachloro-m-xylene (S)	54.7		%	52 - 115		SW846 8082A	10/27/15	BS	10/27/15 16:07	EGO	A
PESTICIDES											
Aldrin	2.0 U	U	ug/kg	2.0	0.66	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
alpha-BHC	2.0 U	U	ug/kg	2.0	0.18	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
beta-BHC	2.0 U	U	ug/kg	2.0	0.22	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
delta-BHC	2.0 U	U	ug/kg	2.0	0.16	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
gamma-BHC	2.0 U	U	ug/kg	2.0	0.17	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
alpha-Chlordane	2.0 U	U	ug/kg	2.0	0.22	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
gamma-Chlordane	2.0 U	U	ug/kg	2.0	0.35	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
4,4'-DDD	4.0 U	U	ug/kg	4.0	0.33	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
4,4'-DDE	4.0 U	U	ug/kg	4.0	0.54	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
4,4'-DDT	8.8		ug/kg	4.0	0.46	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Dieldrin	4.0 U	U	ug/kg	4.0	0.46	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Endosulfan I	2.0 U	U	ug/kg	2.0	0.25	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Endosulfan II	4.0 U	U	ug/kg	4.0	0.83	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Endosulfan Sulfate	4.0 U	U	ug/kg	4.0	0.27	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Endrin	4.0 U	U	ug/kg	4.0	0.29	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Endrin Aldehyde	4.0 U	U	ug/kg	4.0	0.43	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Endrin Ketone	4.0 U	U	ug/kg	4.0	0.55	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Heptachlor	2.0 U	U	ug/kg	2.0	0.20	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851006** Date Collected: 10/23/2015 13:08 Matrix: Solid

Sample ID: **CS-LF011** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Heptachlor Epoxide	2.0 U	U	ug/kg	2.0	0.20	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Methoxychlor	4.0 U	U	ug/kg	4.0	0.53	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Toxaphene	42.2 U	U	ug/kg	42.2	7.0	SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	70.8		%	30 - 135		SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
Tetrachloro-m-xylene (S)	62.4		%	30 - 111		SW846 8081B	10/27/15	BS	10/28/15 12:28	RWS	A
HERBICIDES											
2,4-D	80.3 U	U	ug/kg	80.3	31.1	SW846 8151A	10/26/15	RMP	10/28/15 07:56	KJH	A
2,4-DB	80.3 U	U	ug/kg	80.3	43.1	SW846 8151A	10/26/15	RMP	10/28/15 07:56	KJH	A
Dalapon	80.3 U	U	ug/kg	80.3	20.4	SW846 8151A	10/26/15	RMP	10/28/15 07:56	KJH	A
Dicamba	80.3 U	U	ug/kg	80.3	28.7	SW846 8151A	10/26/15	RMP	10/28/15 07:56	KJH	A
Dichloroprop	80.3 U	U	ug/kg	80.3	32.3	SW846 8151A	10/26/15	RMP	10/28/15 07:56	KJH	A
Dinoseb	200 U	U	ug/kg	200	40.7	SW846 8151A	10/26/15	RMP	10/28/15 07:56	KJH	A
4-Nitrophenol	80.3 U	U	ug/kg	80.3	27.6	SW846 8151A	10/26/15	RMP	10/28/15 07:56	KJH	A
2,4,5-T	80.3 U	U	ug/kg	80.3	33.5	SW846 8151A	10/26/15	RMP	10/28/15 07:56	KJH	A
2,4,5-TP	80.3 U	U	ug/kg	80.3	37.1	SW846 8151A	10/26/15	RMP	10/28/15 07:56	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	75.2		%	30 - 153		SW846 8151A	10/26/15	RMP	10/28/15 07:56	KJH	A
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	11/4/15	MLM	11/5/15 07:34	LJF	A
Hexavalent Chromium	2.4 U	U	mg/kg	2.4	0.47	SW846 7196A	10/27/15	MLM	10/28/15 15:00	MLM	A
Ignitability	not ignitable	7				SW846 1030			11/6/15 10:00	BPC	A
Moisture	18.7		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
Sulfide, Reactive	3.6J	J	ppm	6.2	1.2	SW846 7.3	11/4/15	MLM	11/5/15 19:00	MLM	A
Total Solids	81.3		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
METALS											
Aluminum, Total	7910		mg/kg	11.4	3.8	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Antimony, Total	2.3 U	U	mg/kg	2.3	0.76	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Arsenic, Total	1.8J	J	mg/kg	2.3	0.76	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Barium, Total	59.1		mg/kg	1.1	0.38	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Beryllium, Total	1.1 U	U	mg/kg	1.1	0.38	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Cadmium, Total	0.57 U	U	mg/kg	0.57	0.19	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Calcium, Total	1590		mg/kg	11.4	3.8	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Chromium, Total	5.6		mg/kg	1.1	0.38	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Cobalt, Total	0.63J	J	mg/kg	1.1	0.38	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851006** Date Collected: 10/23/2015 13:08 Matrix: Solid

Sample ID: **CS-LF011** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Copper, Total	6.7		mg/kg	2.3	0.76	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Iron, Total	7530		mg/kg	11.4	3.8	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Lead, Total	4.1		mg/kg	2.3	0.76	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Magnesium, Total	1210		mg/kg	11.4	3.8	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Manganese, Total	26.3		mg/kg	1.1	0.38	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Mercury, Total	0.059 U	U	mg/kg	0.059	0.019	SW846 7471B	10/28/15	MNP	10/28/15 14:12	MNP	A2
Nickel, Total	2.2J	J	mg/kg	2.3	0.76	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Potassium, Total	3610		mg/kg	56.9	19.0	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Selenium, Total	5.7 U	U	mg/kg	5.7	1.9	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Silver, Total	0.57 U	U	mg/kg	0.57	0.19	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Sodium, Total	1340		mg/kg	56.9	19.0	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Thallium, Total	3.4 U	U	mg/kg	3.4	1.1	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Vanadium, Total	11.0		mg/kg	1.1	0.38	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1
Zinc, Total	3.3		mg/kg	2.3	0.76	SW846 6010C	10/25/15	JPS	10/27/15 02:47	TSS	A1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851007** Date Collected: 10/23/2015 13:15 Matrix: Solid

Sample ID: **CS-LF004** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.5 U	U	ug/kg	10.5	4.8	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Benzene	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Bromochloromethane	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Bromodichloromethane	2.1 U	U	ug/kg	2.1	0.75	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Bromoform	2.1 U	U	ug/kg	2.1	0.55	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Bromomethane	2.1 U	U	ug/kg	2.1	0.55	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
2-Butanone	10.5 U	U1	ug/kg	10.5	3.4	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Carbon Disulfide	2.1 U	U	ug/kg	2.1	0.66	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Carbon Tetrachloride	2.1 U	U	ug/kg	2.1	0.54	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Chlorobenzene	2.1 U	U	ug/kg	2.1	0.54	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Chlorodibromomethane	2.1 U	U	ug/kg	2.1	0.72	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Chloroethane	5.3 U	U	ug/kg	5.3	0.90	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Chloroform	2.1 U	U	ug/kg	2.1	0.56	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Chloromethane	2.1 U	U	ug/kg	2.1	0.58	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Cyclohexane	2.1 U	U	ug/kg	2.1	0.54	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,2-Dibromo-3-chloropropane	5.3 U	U	ug/kg	5.3	3.1	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,2-Dibromoethane	2.1 U	U	ug/kg	2.1	0.57	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,2-Dichlorobenzene	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,3-Dichlorobenzene	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,4-Dichlorobenzene	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Dichlorodifluoromethane	2.1 U	U	ug/kg	2.1	0.71	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,1-Dichloroethane	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,2-Dichloroethane	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,1-Dichloroethene	2.1 U	U	ug/kg	2.1	0.55	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
cis-1,2-Dichloroethene	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
trans-1,2-Dichloroethene	2.1 U	U	ug/kg	2.1	0.55	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,2-Dichloropropane	2.1 U	U	ug/kg	2.1	0.63	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
cis-1,3-Dichloropropene	2.1 U	U	ug/kg	2.1	0.58	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
trans-1,3-Dichloropropene	2.1 U	U	ug/kg	2.1	0.61	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,4-Dioxane	79.0 U	U	ug/kg	79.0	18.7	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Ethylbenzene	2.1 U	U	ug/kg	2.1	0.72	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Freon 113	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
2-Hexanone	10.5 U	U2	ug/kg	10.5	2.9	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Isopropylbenzene	2.1 U	U	ug/kg	2.1	0.64	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Methyl acetate	2.1 U	U	ug/kg	2.1	0.62	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Methyl cyclohexane	2.1 U	U	ug/kg	2.1	0.59	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851007** Date Collected: 10/23/2015 13:15 Matrix: Solid

Sample ID: **CS-LF004** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
4-Methyl-2-Pentanone(MIBK)	10.5 U	U	ug/kg	10.5	4.0	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Methylene Chloride	14.7		ug/kg	2.1	0.82	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Styrene	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,1,2,2-Tetrachloroethane	2.1 U	U	ug/kg	2.1	0.59	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Tetrachloroethene	2.1 U	U	ug/kg	2.1	0.63	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Toluene	2.1 U	U	ug/kg	2.1	0.71	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,2,3-Trichlorobenzene	5.3 U	U	ug/kg	5.3	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,2,4-Trichlorobenzene	5.3 U	U	ug/kg	5.3	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,1,1-Trichloroethane	2.1 U	U	ug/kg	2.1	0.65	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
1,1,2-Trichloroethane	2.1 U	U	ug/kg	2.1	0.59	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Trichloroethene	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Trichlorofluoromethane	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Vinyl Chloride	2.1 U	U	ug/kg	2.1	0.53	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
o-Xylene	2.1 U	U	ug/kg	2.1	0.61	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
mp-Xylene	4.2 U	U	ug/kg	4.2	0.87	SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	100		%	56 - 124		SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
4-Bromofluorobenzene (S)	102		%	51 - 128		SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Dibromofluoromethane (S)	101		%	62 - 123		SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
Toluene-d8 (S)	104		%	59 - 131		SW846 8260C	10/24/15	TMP	10/27/15 18:29	TMP	A2
SEMIVOLATILES											
Acenaphthene	109 U	U	ug/kg	109	16.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Acenaphthylene	109 U	U	ug/kg	109	12.0	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Acetophenone	109 U	U	ug/kg	109	10.9	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Aniline	294 U	U	ug/kg	294	150	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Anthracene	109 U	U	ug/kg	109	10.9	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Atrazine	109 U	U	ug/kg	109	28.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Benzaldehyde	294 U	U	ug/kg	294	45.8	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Benzidine	872 U	U	ug/kg	872	429	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Benzo(a)anthracene	109 U	U	ug/kg	109	16.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Benzo(a)pyrene	109 U	U	ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Benzo(b)fluoranthene	109 U	U	ug/kg	109	26.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Benzo(g,h,i)perylene	109 U	U	ug/kg	109	22.9	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Benzoic acid	588 U	U	ug/kg	588	133	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Benzo(k)fluoranthene	109 U	U	ug/kg	109	20.7	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Benzyl Alcohol	294 U	U	ug/kg	294	100	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851007** Date Collected: 10/23/2015 13:15 Matrix: Solid

Sample ID: **CS-LF004** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Biphenyl	109 U	U	ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
4-Bromophenyl-phenylether	109 U	U	ug/kg	109	25.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Butylbenzylphthalate	109 U	U	ug/kg	109	28.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Caprolactam	294 U	U	ug/kg	294	79.5	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Carbazole	109 U	U	ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
4-Chloro-3-methylphenol	294 U	U	ug/kg	294	16.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
4-Chloroaniline	294 U	U	ug/kg	294	146	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
bis(2-Chloroethoxy)methane	109 U	U	ug/kg	109	16.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
bis(2-Chloroethyl)ether	109 U	U	ug/kg	109	21.8	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
bis(2-Chloroisopropyl)ether	109 U	U	ug/kg	109	27.2	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2-Chloronaphthalene	109 U	U	ug/kg	109	15.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2-Chlorophenol	294 U	U	ug/kg	294	19.6	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
4-Chlorophenyl-phenylether	109 U	U	ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Chrysene	109 U	U	ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
mp-Cresol	294 U	U	ug/kg	294	16.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
o-Cresol	294 U	U	ug/kg	294	24.0	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Di-n-Butylphthalate	109 U	U	ug/kg	109	16.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Di-n-Octylphthalate	294 U	U	ug/kg	294	42.5	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Dibenzo(a,h)anthracene	109 U	U	ug/kg	109	13.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Dibenzofuran	109 U	U	ug/kg	109	12.0	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
1,2-Dichlorobenzene	109 U	U	ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
1,3-Dichlorobenzene	109 U	U	ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
1,4-Dichlorobenzene	109 U	U	ug/kg	109	18.5	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
3,3-Dichlorobenzidine	163 U	U	ug/kg	163	76.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2,4-Dichlorophenol	218 U	U	ug/kg	218	19.6	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2,6-Dichlorophenol	294 U	U	ug/kg	294	25.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Diethylphthalate	109 U	U	ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Dimethoate	294 U	U	ug/kg	294	15.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2,4-Dimethylphenol	294 U	U	ug/kg	294	83.9	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Dimethylphthalate	109 U	U	ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
1,2-Dinitrobenzene	109 U	U	ug/kg	109	26.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
1,4-Dinitrobenzene	109 U	U	ug/kg	109	25.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2,4-Dinitrophenol	218 U	U	ug/kg	218	69.7	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2,4-Dinitrotoluene	109 U	U	ug/kg	109	31.6	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2,6-Dinitrotoluene	109 U	U	ug/kg	109	26.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Diphenylamine	109 U	U	ug/kg	109	15.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
1,2-Diphenylhydrazine	109 U	U	ug/kg	109	14.2	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
bis(2-Ethylhexyl)phthalate	109 U	U	ug/kg	109	25.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851007** Date Collected: 10/23/2015 13:15 Matrix: Solid

Sample ID: **CS-LF004** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Fluoranthene	109 U	U	ug/kg	109	20.7	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Fluorene	109 U	U	ug/kg	109	21.8	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Hexachlorobenzene	109 U	U	ug/kg	109	20.7	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Hexachlorobutadiene	109 U	U	ug/kg	109	28.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Hexachlorocyclopentadiene	294 U	U	ug/kg	294	94.8	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Hexachloroethane	109 U	U	ug/kg	109	18.5	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Indeno(1,2,3-cd)pyrene	109 U	U	ug/kg	109	19.6	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Isophorone	109 U	U	ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2-Methyl-4,6-dinitrophenol	294 U	U	ug/kg	294	63.2	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2-Methylnaphthalene	109 U	U	ug/kg	109	17.4	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2-Naphthylamine	294 U	U	ug/kg	294	71.9	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Naphthalene	109 U	U	ug/kg	109	26.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2-Nitroaniline	294 U	U	ug/kg	294	142	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
3-Nitroaniline	392 U	U	ug/kg	392	193	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
4-Nitroaniline	305 U	U	ug/kg	305	153	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Nitrobenzene	109 U	U	ug/kg	109	22.9	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2-Nitrophenol	294 U	U	ug/kg	294	29.4	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
4-Nitrophenol	294 U	U	ug/kg	294	110	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
N-Nitrosodi-n-butylamine	109 U	U	ug/kg	109	25.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
N-Nitrosodiethylamine	109 U	U	ug/kg	109	21.8	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
N-Nitrosodimethylamine	109 U	U	ug/kg	109	39.2	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
N-Nitroso-di-n-propylamine	109 U	U	ug/kg	109	18.5	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
N-Nitrosodiphenylamine	109 U	U	ug/kg	109	18.5	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
N-Nitrosopyrrolidine	109 U	U	ug/kg	109	20.7	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Pentachlorobenzene	109 U	U	ug/kg	109	26.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Pentachlorophenol	218 U	U	ug/kg	218	39.2	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Phenanthrene	109 U	U	ug/kg	109	15.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Phenol	294 U	U	ug/kg	294	16.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Pyrene	109 U	U	ug/kg	109	19.6	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Pyridine	294 U	U	ug/kg	294	26.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Resorcinol	109 U	U	ug/kg	109	25.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
1,2,4,5-Tetrachlorobenzene	109 U	U	ug/kg	109	16.3	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2,3,4,6-Tetrachlorophenol	294 U	U	ug/kg	294	22.9	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
1,2,4-Trichlorobenzene	109 U	U	ug/kg	109	25.1	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2,4,5-Trichlorophenol	294 U	U	ug/kg	294	21.8	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2,4,6-Trichlorophenol	218 U	U	ug/kg	218	21.8	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	90.4		%	37 - 123	SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851007** Date Collected: 10/23/2015 13:15 Matrix: Solid

Sample ID: **CS-LF004** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	80.9		%	45 - 105		SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
2-Fluorophenol (S)	89.5		%	35 - 104		SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Nitrobenzene-d5 (S)	82.9		%	41 - 110		SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Phenol-d5 (S)	87		%	40 - 100		SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
Terphenyl-d14 (S)	86.7		%	38 - 113		SW846 8270D	10/26/15	BS	10/27/15 14:39	CGS	A
PCBs											
Total Polychlorinated Biphenyl	0.037 U	U	mg/kg	0.037	0.037	SW846 8082A	10/27/15	BS	10/27/15 16:31	EGO	A
Aroclor-1016	0.037 U	U	mg/kg	0.037	0.0067	SW846 8082A	10/27/15	BS	10/27/15 16:31	EGO	A
Aroclor-1221	0.037 U	U	mg/kg	0.037	0.0034	SW846 8082A	10/27/15	BS	10/27/15 16:31	EGO	A
Aroclor-1232	0.037 U	U	mg/kg	0.037	0.0067	SW846 8082A	10/27/15	BS	10/27/15 16:31	EGO	A
Aroclor-1242	0.037 U	U	mg/kg	0.037	0.010	SW846 8082A	10/27/15	BS	10/27/15 16:31	EGO	A
Aroclor-1248	0.037 U	U	mg/kg	0.037	0.0067	SW846 8082A	10/27/15	BS	10/27/15 16:31	EGO	A
Aroclor-1254	0.037 U	U	mg/kg	0.037	0.0067	SW846 8082A	10/27/15	BS	10/27/15 16:31	EGO	A
Aroclor-1260	0.037 U	U	mg/kg	0.037	0.0067	SW846 8082A	10/27/15	BS	10/27/15 16:31	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	60.4		%	46 - 120		SW846 8082A	10/27/15	BS	10/27/15 16:31	EGO	A
Tetrachloro-m-xylene (S)	66.1		%	52 - 115		SW846 8082A	10/27/15	BS	10/27/15 16:31	EGO	A
PESTICIDES											
Aldrin	1.9 U	U	ug/kg	1.9	0.62	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
alpha-BHC	1.9 U	U	ug/kg	1.9	0.17	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
beta-BHC	1.9 U	U	ug/kg	1.9	0.20	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
delta-BHC	1.9 U	U	ug/kg	1.9	0.15	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
gamma-BHC	1.9 U	U	ug/kg	1.9	0.16	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
alpha-Chlordane	1.9 U	U	ug/kg	1.9	0.20	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
gamma-Chlordane	1.9 U	U	ug/kg	1.9	0.32	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
4,4'-DDD	3.7 U	U	ug/kg	3.7	0.30	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
4,4'-DDE	3.7 U	U	ug/kg	3.7	0.50	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
4,4'-DDT	3.7 U	U	ug/kg	3.7	0.43	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Dieldrin	3.7 U	U	ug/kg	3.7	0.43	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Endosulfan I	1.9 U	U	ug/kg	1.9	0.23	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Endosulfan II	3.7 U	U	ug/kg	3.7	0.77	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Endosulfan Sulfate	3.7 U	U	ug/kg	3.7	0.25	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Endrin	3.7 U	U	ug/kg	3.7	0.27	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Endrin Aldehyde	3.7 U	U	ug/kg	3.7	0.40	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Endrin Ketone	3.7 U	U	ug/kg	3.7	0.51	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Heptachlor	1.9 U	U	ug/kg	1.9	0.19	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851007** Date Collected: 10/23/2015 13:15 Matrix: Solid

Sample ID: **CS-LF004** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Heptachlor Epoxide	1.9 U	U	ug/kg	1.9	0.19	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Methoxychlor	3.7 U	U	ug/kg	3.7	0.49	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Toxaphene	39.2 U	U	ug/kg	39.2	6.5	SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	63.4		%	30 - 135		SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
Tetrachloro-m-xylene (S)	65.6		%	30 - 111		SW846 8081B	10/27/15	BS	10/28/15 12:44	RWS	A
HERBICIDES											
2,4-D	73.5 U	U	ug/kg	73.5	28.5	SW846 8151A	10/26/15	RMP	10/28/15 08:33	KJH	A
2,4-DB	73.5 U	U	ug/kg	73.5	39.5	SW846 8151A	10/26/15	RMP	10/28/15 08:33	KJH	A
Dalapon	73.5 U	U	ug/kg	73.5	18.6	SW846 8151A	10/26/15	RMP	10/28/15 08:33	KJH	A
Dicamba	73.5 U	U	ug/kg	73.5	26.3	SW846 8151A	10/26/15	RMP	10/28/15 08:33	KJH	A
Dichloroprop	73.5 U	U	ug/kg	73.5	29.6	SW846 8151A	10/26/15	RMP	10/28/15 08:33	KJH	A
Dinoseb	183 U	U	ug/kg	183	37.3	SW846 8151A	10/26/15	RMP	10/28/15 08:33	KJH	A
4-Nitrophenol	73.5 U	U	ug/kg	73.5	25.2	SW846 8151A	10/26/15	RMP	10/28/15 08:33	KJH	A
2,4,5-T	73.5 U	U	ug/kg	73.5	30.7	SW846 8151A	10/26/15	RMP	10/28/15 08:33	KJH	A
2,4,5-TP	73.5 U	U	ug/kg	73.5	34.0	SW846 8151A	10/26/15	RMP	10/28/15 08:33	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	67.5		%	30 - 153		SW846 8151A	10/26/15	RMP	10/28/15 08:33	KJH	A
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	11/4/15	MLM	11/5/15 07:34	LJF	A
Hexavalent Chromium	2.2 U	U	mg/kg	2.2	0.42	SW846 7196A	10/27/15	MLM	10/28/15 15:00	MLM	A
Ignitability	not ignitable	3				SW846 1030			11/6/15 10:00	BPC	A
Moisture	10.6		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
Sulfide, Reactive	5.6J	J	ppm	6.2	1.2	SW846 7.3	11/4/15	MLM	11/5/15 19:00	MLM	A
Total Solids	89.4		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
METALS											
Aluminum, Total	6640		mg/kg	10	3.3	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Antimony, Total	2.0 U	U	mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Arsenic, Total	1.3J	J	mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Barium, Total	16.1		mg/kg	1.0	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Beryllium, Total	1.0 U	U	mg/kg	1.0	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Cadmium, Total	0.40J	J	mg/kg	0.50	0.17	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Calcium, Total	256		mg/kg	10	3.3	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Chromium, Total	6.6		mg/kg	1.0	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Cobalt, Total	7.0		mg/kg	1.0	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851007** Date Collected: 10/23/2015 13:15 Matrix: Solid

Sample ID: **CS-LF004** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Copper, Total	10.3		mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Iron, Total	12200		mg/kg	10	3.3	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Lead, Total	3.5		mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Magnesium, Total	1460		mg/kg	10	3.3	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Manganese, Total	399		mg/kg	1.0	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Mercury, Total	0.049 U	U	mg/kg	0.049	0.016	SW846 7471B	10/28/15	MNP	10/28/15 14:13	MNP	A2
Nickel, Total	18.4		mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Potassium, Total	284		mg/kg	49.9	16.7	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Selenium, Total	5.0 U	U	mg/kg	5.0	1.7	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Silver, Total	0.50 U	U	mg/kg	0.50	0.17	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Sodium, Total	42.6J	J	mg/kg	49.9	16.7	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Thallium, Total	3.0 U	U	mg/kg	3.0	1.0	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Vanadium, Total	13.9		mg/kg	1.0	0.33	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1
Zinc, Total	1050		mg/kg	2.0	0.67	SW846 6010C	10/25/15	JPS	10/27/15 02:50	TSS	A1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851008** Date Collected: 10/23/2015 13:22 Matrix: Solid

Sample ID: **CS-LF003** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	501 U	U	ug/kg	501	155	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Benzene	50.1 U	U	ug/kg	50.1	11.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Bromochloromethane	50.1 U	U	ug/kg	50.1	16.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Bromodichloromethane	50.1 U	U	ug/kg	50.1	13.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Bromoform	50.1 U	U	ug/kg	50.1	20.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Bromomethane	50.1 U	U	ug/kg	50.1	19.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
2-Butanone	501 U	U	ug/kg	501	90.2	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Carbon Disulfide	50.1 U	U	ug/kg	50.1	11.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Carbon Tetrachloride	50.1 U	U	ug/kg	50.1	15.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Chlorobenzene	50.1 U	U	ug/kg	50.1	9.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Chlorodibromomethane	50.1 U	U	ug/kg	50.1	22.6	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Chloroethane	50.1 U	U	ug/kg	50.1	16.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Chloroform	50.1 U	U	ug/kg	50.1	10.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Chloromethane	50.1 U	U	ug/kg	50.1	15.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Cyclohexane	50.1 U	U	ug/kg	50.1	14.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,2-Dibromo-3-chloropropane	351 U	U	ug/kg	351	75.2	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,2-Dibromoethane	50.1 U	U	ug/kg	50.1	14.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,2-Dichlorobenzene	50.1 U	U	ug/kg	50.1	19.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,3-Dichlorobenzene	50.1 U	U	ug/kg	50.1	12.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,4-Dichlorobenzene	50.1 U	U	ug/kg	50.1	13.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Dichlorodifluoromethane	50.1 U	U	ug/kg	50.1	16.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,1-Dichloroethane	50.1 U	U	ug/kg	50.1	14.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,2-Dichloroethane	50.1 U	U	ug/kg	50.1	16.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,1-Dichloroethene	50.1 U	U	ug/kg	50.1	14.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
cis-1,2-Dichloroethene	50.1 U	U	ug/kg	50.1	16.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
trans-1,2-Dichloroethene	50.1 U	U	ug/kg	50.1	13.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,2-Dichloropropane	50.1 U	U	ug/kg	50.1	12.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
cis-1,3-Dichloropropene	50.1 U	U	ug/kg	50.1	15.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
trans-1,3-Dichloropropene	50.1 U	U	ug/kg	50.1	14.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,4-Dioxane	16000 U	U	ug/kg	16000	2950	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Ethylbenzene	50.1 U	U	ug/kg	50.1	17.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Freon 113	50.1 U	U	ug/kg	50.1	13.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
2-Hexanone	251 U	U	ug/kg	251	65.1	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Isopropylbenzene	50.1 U	U	ug/kg	50.1	11.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Methyl acetate	100 U	U	ug/kg	100	16.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Methyl cyclohexane	50.1 U	U	ug/kg	50.1	15.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851008** Date Collected: 10/23/2015 13:22 Matrix: Solid

Sample ID: **CS-LF003** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	50.1 U	U	ug/kg	50.1	16.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
4-Methyl-2-Pentanone(MIBK)	251 U	U	ug/kg	251	75.2	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Methylene Chloride	50.1 U	U	ug/kg	50.1	22.6	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Styrene	50.1 U	U	ug/kg	50.1	12.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,1,2,2-Tetrachloroethane	50.1 U	U	ug/kg	50.1	17.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Tetrachloroethene	50.1 U	U	ug/kg	50.1	17.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Toluene	50.1 U	U	ug/kg	50.1	11.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,2,3-Trichlorobenzene	200 U	U	ug/kg	200	46.6	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,2,4-Trichlorobenzene	150 U	U	ug/kg	150	41.1	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,1,1-Trichloroethane	50.1 U	U	ug/kg	50.1	11.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
1,1,2-Trichloroethane	50.1 U	U	ug/kg	50.1	16.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Trichloroethene	50.1 U	U	ug/kg	50.1	16.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Trichlorofluoromethane	50.1 U	U	ug/kg	50.1	12.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Vinyl Chloride	50.1 U	U	ug/kg	50.1	15.0	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
o-Xylene	50.1 U	U	ug/kg	50.1	16.5	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
mp-Xylene	100 U	U	ug/kg	100	26.1	SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91.2		%	71 - 146		SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
4-Bromofluorobenzene (S)	101		%	46 - 138		SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Dibromofluoromethane (S)	82		%	42 - 143		SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
Toluene-d8 (S)	111		%	54 - 141		SW846 8260C	10/24/15	CPK	10/29/15 03:09	CJG	A3
SEMIVOLATILES											
Acenaphthene	105 U	U	ug/kg	105	15.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Acenaphthylene	105 U	U	ug/kg	105	11.5	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Acetophenone	105 U	U	ug/kg	105	10.5	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Aniline	283 U	U	ug/kg	283	145	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Anthracene	105 U	U	ug/kg	105	10.5	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Atrazine	105 U	U	ug/kg	105	27.3	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Benzaldehyde	283 U	U	ug/kg	283	44.0	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Benzidine	839 U	U	ug/kg	839	413	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Benzo(a)anthracene	105 U	U	ug/kg	105	15.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Benzo(a)pyrene	105 U	U	ug/kg	105	16.8	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Benzo(b)fluoranthene	105 U	U	ug/kg	105	25.2	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Benzo(g,h,i)perylene	105 U	U	ug/kg	105	22.0	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Benzoic acid	566 U	U	ug/kg	566	128	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Benzo(k)fluoranthene	105 U	U	ug/kg	105	19.9	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Benzyl Alcohol	283 U	U	ug/kg	283	96.5	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851008** Date Collected: 10/23/2015 13:22 Matrix: Solid

Sample ID: **CS-LF003** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Biphenyl	105 U	U	ug/kg	105	13.6	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
4-Bromophenyl-phenylether	105 U	U	ug/kg	105	24.1	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Butylbenzylphthalate	105 U	U	ug/kg	105	27.3	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Caprolactam	283 U	U	ug/kg	283	76.5	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Carbazole	105 U	U	ug/kg	105	13.6	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
4-Chloro-3-methylphenol	283 U	U	ug/kg	283	15.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
4-Chloroaniline	283 U	U	ug/kg	283	140	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
bis(2-Chloroethoxy)methane	105 U	U	ug/kg	105	15.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
bis(2-Chloroethyl)ether	105 U	U	ug/kg	105	21.0	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
bis(2-Chloroisopropyl)ether	105 U	U	ug/kg	105	26.2	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2-Chloronaphthalene	105 U	U	ug/kg	105	14.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2-Chlorophenol	283 U	U	ug/kg	283	18.9	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
4-Chlorophenyl-phenylether	105 U	U	ug/kg	105	16.8	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Chrysene	105 U	U	ug/kg	105	13.6	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
mp-Cresol	283 U	U	ug/kg	283	15.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
o-Cresol	283 U	U	ug/kg	283	23.1	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Di-n-Butylphthalate	105 U	U	ug/kg	105	15.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Di-n-Octylphthalate	283 U	U	ug/kg	283	40.9	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Dibenzo(a,h)anthracene	105 U	U	ug/kg	105	12.6	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Dibenzofuran	105 U	U	ug/kg	105	11.5	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
1,2-Dichlorobenzene	105 U	U	ug/kg	105	13.6	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
1,3-Dichlorobenzene	105 U	U	ug/kg	105	16.8	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
1,4-Dichlorobenzene	105 U	U	ug/kg	105	17.8	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
3,3-Dichlorobenzidine	157 U	U	ug/kg	157	73.4	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2,4-Dichlorophenol	210 U	U	ug/kg	210	18.9	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2,6-Dichlorophenol	283 U	U	ug/kg	283	24.1	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Diethylphthalate	105 U	U	ug/kg	105	13.6	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Dimethoate	283 U	U	ug/kg	283	14.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2,4-Dimethylphenol	283 U	U	ug/kg	283	80.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Dimethylphthalate	105 U	U	ug/kg	105	16.8	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
1,2-Dinitrobenzene	105 U	U	ug/kg	105	25.2	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
1,4-Dinitrobenzene	105 U	U	ug/kg	105	24.1	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2,4-Dinitrophenol	210 U	U	ug/kg	210	67.1	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2,4-Dinitrotoluene	105 U	U	ug/kg	105	30.4	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2,6-Dinitrotoluene	105 U	U	ug/kg	105	25.2	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Diphenylamine	105 U	U	ug/kg	105	14.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
1,2-Diphenylhydrazine	105 U	U	ug/kg	105	13.6	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
bis(2-Ethylhexyl)phthalate	105 U	U	ug/kg	105	24.1	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851008** Date Collected: 10/23/2015 13:22 Matrix: Solid

Sample ID: **CS-LF003** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Fluoranthene	105 U	U	ug/kg	105	19.9	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Fluorene	105 U	U	ug/kg	105	21.0	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Hexachlorobenzene	105 U	U	ug/kg	105	19.9	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Hexachlorobutadiene	105 U	U	ug/kg	105	27.3	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Hexachlorocyclopentadiene	283 U	U	ug/kg	283	91.2	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Hexachloroethane	105 U	U	ug/kg	105	17.8	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Indeno(1,2,3-cd)pyrene	105 U	U	ug/kg	105	18.9	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Isophorone	105 U	U	ug/kg	105	16.8	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2-Methyl-4,6-dinitrophenol	283 U	U	ug/kg	283	60.8	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2-Methylnaphthalene	105 U	U	ug/kg	105	16.8	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2-Naphthylamine	283 U	U	ug/kg	283	69.2	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Naphthalene	105 U	U	ug/kg	105	25.2	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2-Nitroaniline	283 U	U	ug/kg	283	136	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
3-Nitroaniline	377 U	U	ug/kg	377	186	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
4-Nitroaniline	294 U	U	ug/kg	294	147	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Nitrobenzene	105 U	U	ug/kg	105	22.0	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2-Nitrophenol	283 U	U	ug/kg	283	28.3	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
4-Nitrophenol	283 U	U	ug/kg	283	106	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
N-Nitrosodi-n-butylamine	105 U	U	ug/kg	105	24.1	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
N-Nitrosodiethylamine	105 U	U	ug/kg	105	21.0	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
N-Nitrosodimethylamine	105 U	U	ug/kg	105	37.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
N-Nitroso-di-n-propylamine	105 U	U	ug/kg	105	17.8	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
N-Nitrosodiphenylamine	105 U	U	ug/kg	105	17.8	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
N-Nitrosopyrrolidine	105 U	U	ug/kg	105	19.9	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Pentachlorobenzene	105 U	U	ug/kg	105	25.2	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Pentachlorophenol	210 U	U	ug/kg	210	37.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Phenanthrene	105 U	U	ug/kg	105	14.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Phenol	283 U	U	ug/kg	283	15.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Pyrene	105 U	U	ug/kg	105	18.9	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Pyridine	283 U	U	ug/kg	283	25.2	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Resorcinol	105 U	U	ug/kg	105	24.1	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
1,2,4,5-Tetrachlorobenzene	105 U	U	ug/kg	105	15.7	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2,3,4,6-Tetrachlorophenol	283 U	U	ug/kg	283	22.0	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
1,2,4-Trichlorobenzene	105 U	U	ug/kg	105	24.1	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2,4,5-Trichlorophenol	283 U	U	ug/kg	283	21.0	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2,4,6-Trichlorophenol	210 U	U	ug/kg	210	21.0	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	68.4		%	37 - 123	SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851008** Date Collected: 10/23/2015 13:22 Matrix: Solid

Sample ID: **CS-LF003** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	61		%	45 - 105		SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
2-Fluorophenol (S)	65.2		%	35 - 104		SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Nitrobenzene-d5 (S)	59.4		%	41 - 110		SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Phenol-d5 (S)	63.9		%	40 - 100		SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
Terphenyl-d14 (S)	71.7		%	38 - 113		SW846 8270D	10/26/15	BS	10/27/15 14:14	CGS	A
PCBs											
Total Polychlorinated Biphenyl	0.035 U	U	mg/kg	0.035	0.035	SW846 8082A	10/27/15	BS	10/27/15 16:54	EGO	A
Aroclor-1016	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	10/27/15	BS	10/27/15 16:54	EGO	A
Aroclor-1221	0.035 U	U	mg/kg	0.035	0.0031	SW846 8082A	10/27/15	BS	10/27/15 16:54	EGO	A
Aroclor-1232	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	10/27/15	BS	10/27/15 16:54	EGO	A
Aroclor-1242	0.035 U	U	mg/kg	0.035	0.0094	SW846 8082A	10/27/15	BS	10/27/15 16:54	EGO	A
Aroclor-1248	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	10/27/15	BS	10/27/15 16:54	EGO	A
Aroclor-1254	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	10/27/15	BS	10/27/15 16:54	EGO	A
Aroclor-1260	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	10/27/15	BS	10/27/15 16:54	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	58.1		%	46 - 120		SW846 8082A	10/27/15	BS	10/27/15 16:54	EGO	A
Tetrachloro-m-xylene (S)	59.8		%	52 - 115		SW846 8082A	10/27/15	BS	10/27/15 16:54	EGO	A
PESTICIDES											
Aldrin	1.8 U	U	ug/kg	1.8	0.58	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
alpha-BHC	1.8 U	U	ug/kg	1.8	0.16	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
beta-BHC	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
delta-BHC	1.8 U	U	ug/kg	1.8	0.14	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
gamma-BHC	1.8 U	U	ug/kg	1.8	0.15	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
alpha-Chlordane	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
gamma-Chlordane	1.8 U	U	ug/kg	1.8	0.30	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
4,4'-DDD	3.5 U	U	ug/kg	3.5	0.28	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
4,4'-DDE	3.5 U	U	ug/kg	3.5	0.47	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
4,4'-DDT	3.5 U	U	ug/kg	3.5	0.40	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Dieldrin	3.5 U	U	ug/kg	3.5	0.40	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Endosulfan I	1.8 U	U	ug/kg	1.8	0.22	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Endosulfan II	3.5 U	U	ug/kg	3.5	0.72	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Endosulfan Sulfate	3.5 U	U	ug/kg	3.5	0.23	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Endrin	3.5 U	U	ug/kg	3.5	0.25	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Endrin Aldehyde	3.5 U	U	ug/kg	3.5	0.38	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Endrin Ketone	3.5 U	U	ug/kg	3.5	0.48	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Heptachlor	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851008** Date Collected: 10/23/2015 13:22 Matrix: Solid

Sample ID: **CS-LF003** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Heptachlor Epoxide	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Methoxychlor	3.5 U	U	ug/kg	3.5	0.46	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Toxaphene	36.7 U	U	ug/kg	36.7	6.1	SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	66.4		%	30 - 135		SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
Tetrachloro-m-xylene (S)	56.3		%	30 - 111		SW846 8081B	10/27/15	BS	10/28/15 13:00	RWS	A
HERBICIDES											
2,4-D	70.9 U	U	ug/kg	70.9	27.5	SW846 8151A	10/26/15	RMP	10/28/15 09:10	KJH	A
2,4-DB	70.9 U	U	ug/kg	70.9	38.1	SW846 8151A	10/26/15	RMP	10/28/15 09:10	KJH	A
Dalapon	70.9 U	U	ug/kg	70.9	18.0	SW846 8151A	10/26/15	RMP	10/28/15 09:10	KJH	A
Dicamba	70.9 U	U	ug/kg	70.9	25.4	SW846 8151A	10/26/15	RMP	10/28/15 09:10	KJH	A
Dichloroprop	70.9 U	U	ug/kg	70.9	28.6	SW846 8151A	10/26/15	RMP	10/28/15 09:10	KJH	A
Dinoseb	177 U	U	ug/kg	177	36.0	SW846 8151A	10/26/15	RMP	10/28/15 09:10	KJH	A
4-Nitrophenol	70.9 U	U	ug/kg	70.9	24.4	SW846 8151A	10/26/15	RMP	10/28/15 09:10	KJH	A
2,4,5-T	70.9 U	U	ug/kg	70.9	29.6	SW846 8151A	10/26/15	RMP	10/28/15 09:10	KJH	A
2,4,5-TP	70.9 U	U	ug/kg	70.9	32.8	SW846 8151A	10/26/15	RMP	10/28/15 09:10	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	69.2		%	30 - 153		SW846 8151A	10/26/15	RMP	10/28/15 09:10	KJH	A
WET CHEMISTRY											
Cyanide, Reactive	10.0 U	U	ppm	10.0	0.011	SW-846 7.3CN	11/4/15	MLM	11/5/15 07:34	LJF	A
Hexavalent Chromium	2.1 U	U	mg/kg	2.1	0.40	SW846 7196A	10/27/15	MLM	10/28/15 15:00	MLM	A
Ignitability	not ignitable	7				SW846 1030			11/6/15 10:00	BPC	A
Moisture	5.9		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	B
Sulfide, Reactive	6.0J	J	ppm	6.3	1.3	SW846 7.3	11/4/15	MLM	11/5/15 19:00	MLM	A
Total Solids	94.1		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	B
METALS											
Aluminum, Total	5260		mg/kg	9.2	3.0	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Antimony, Total	1.8 U	U	mg/kg	1.8	0.61	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Arsenic, Total	1.6J	J	mg/kg	1.8	0.61	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Barium, Total	14.4		mg/kg	0.92	0.30	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Beryllium, Total	0.92 U	U	mg/kg	0.92	0.30	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Cadmium, Total	0.46 U	U	mg/kg	0.46	0.15	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Calcium, Total	278		mg/kg	9.2	3.0	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Chromium, Total	6.2		mg/kg	0.92	0.30	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Cobalt, Total	3.4		mg/kg	0.92	0.30	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851008** Date Collected: 10/23/2015 13:22 Matrix: Solid

Sample ID: **CS-LF003** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Copper, Total	9.6		mg/kg	1.8	0.61	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Iron, Total	16600		mg/kg	9.2	3.0	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Lead, Total	3.2		mg/kg	1.8	0.61	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Magnesium, Total	1140		mg/kg	9.2	3.0	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Manganese, Total	218		mg/kg	0.92	0.30	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Mercury, Total	0.22		mg/kg	0.046	0.015	SW846 7471B	10/28/15	MNP	10/28/15 14:14	MNP	A2
Nickel, Total	15.6		mg/kg	1.8	0.61	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Potassium, Total	231		mg/kg	45.8	15.3	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Selenium, Total	4.6 U	U	mg/kg	4.6	1.5	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Silver, Total	0.46 U	U	mg/kg	0.46	0.15	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Sodium, Total	46.0		mg/kg	45.8	15.3	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Thallium, Total	2.7 U	U	mg/kg	2.7	0.92	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Vanadium, Total	10.4		mg/kg	0.92	0.30	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1
Zinc, Total	19.4		mg/kg	1.8	0.61	SW846 6010C	10/25/15	JPS	10/27/15 02:54	TSS	A1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851009** Date Collected: 10/23/2015 13:30 Matrix: Solid

Sample ID: **CS-LF007** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	9.7 U	U	ug/kg	9.7	4.5	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Benzene	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Bromochloromethane	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Bromodichloromethane	1.9 U	U	ug/kg	1.9	0.69	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Bromoform	1.9 U	U	ug/kg	1.9	0.51	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Bromomethane	1.9 U	U	ug/kg	1.9	0.51	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
2-Butanone	9.7 U	U1	ug/kg	9.7	3.1	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Carbon Disulfide	1.9 U	U	ug/kg	1.9	0.61	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Carbon Tetrachloride	1.9 U	U	ug/kg	1.9	0.50	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Chlorobenzene	1.9 U	U	ug/kg	1.9	0.50	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Chlorodibromomethane	1.9 U	U	ug/kg	1.9	0.66	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Chloroethane	4.9 U	U	ug/kg	4.9	0.83	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Chloroform	1.9 U	U	ug/kg	1.9	0.52	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Chloromethane	1.9 U	U	ug/kg	1.9	0.54	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Cyclohexane	1.9 U	U	ug/kg	1.9	0.50	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,2-Dibromo-3-chloropropane	4.9 U	U	ug/kg	4.9	2.8	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,2-Dibromoethane	1.9 U	U	ug/kg	1.9	0.53	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,2-Dichlorobenzene	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,3-Dichlorobenzene	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,4-Dichlorobenzene	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Dichlorodifluoromethane	1.9 U	U	ug/kg	1.9	0.65	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,1-Dichloroethane	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,2-Dichloroethane	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,1-Dichloroethene	1.9 U	U	ug/kg	1.9	0.51	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
cis-1,2-Dichloroethene	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
trans-1,2-Dichloroethene	1.9 U	U	ug/kg	1.9	0.51	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,2-Dichloropropane	1.9 U	U	ug/kg	1.9	0.58	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
cis-1,3-Dichloropropene	1.9 U	U	ug/kg	1.9	0.54	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
trans-1,3-Dichloropropene	1.9 U	U	ug/kg	1.9	0.56	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,4-Dioxane	73.0 U	U	ug/kg	73.0	17.3	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Ethylbenzene	1.9 U	U	ug/kg	1.9	0.66	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Freon 113	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
2-Hexanone	9.7 U	U2	ug/kg	9.7	2.7	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Isopropylbenzene	1.9 U	U	ug/kg	1.9	0.59	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Methyl acetate	1.9 U	U	ug/kg	1.9	0.57	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Methyl cyclohexane	1.9 U	U	ug/kg	1.9	0.55	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851009** Date Collected: 10/23/2015 13:30 Matrix: Solid

Sample ID: **CS-LF007** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
4-Methyl-2-Pentanone(MIBK)	9.7 U	U	ug/kg	9.7	3.7	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Methylene Chloride	10.9		ug/kg	1.9	0.76	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Styrene	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,1,2,2-Tetrachloroethane	1.9 U	U	ug/kg	1.9	0.55	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Tetrachloroethene	1.9 U	U	ug/kg	1.9	0.58	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Toluene	1.9 U	U	ug/kg	1.9	0.65	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,2,3-Trichlorobenzene	4.9 U	U	ug/kg	4.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,2,4-Trichlorobenzene	4.9 U	U	ug/kg	4.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,1,1-Trichloroethane	1.9 U	U	ug/kg	1.9	0.60	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
1,1,2-Trichloroethane	1.9 U	U	ug/kg	1.9	0.55	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Trichloroethene	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Trichlorofluoromethane	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Vinyl Chloride	1.9 U	U	ug/kg	1.9	0.49	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
o-Xylene	1.9 U	U	ug/kg	1.9	0.56	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
mp-Xylene	3.9 U	U	ug/kg	3.9	0.81	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	100		%	56 - 124	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
4-Bromofluorobenzene (S)	99		%	51 - 128	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Dibromofluoromethane (S)	99.4		%	62 - 123	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2
Toluene-d8 (S)	99.4		%	59 - 131	SW846 8260C	10/24/15	TMP	10/27/15 19:16	TMP	A2

SEMIVOLATILES

Acenaphthene	102 U	U	ug/kg	102	15.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Acenaphthylene	102 U	U	ug/kg	102	11.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Acetophenone	102 U	U	ug/kg	102	10.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Aniline	274 U	U	ug/kg	274	140	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Anthracene	102 U	U	ug/kg	102	10.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Atrazine	102 U	U	ug/kg	102	26.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Benzaldehyde	274 U	U	ug/kg	274	42.6	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Benzidine	812 U	U	ug/kg	812	400	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Benzo(a)anthracene	102 U	U	ug/kg	102	15.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Benzo(a)pyrene	102 U	U	ug/kg	102	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Benzo(b)fluoranthene	102 U	U	ug/kg	102	24.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Benzo(g,h,i)perylene	102 U	U	ug/kg	102	21.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Benzoic acid	548 U	U	ug/kg	548	124	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Benzo(k)fluoranthene	102 U	U	ug/kg	102	19.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Benzyl Alcohol	274 U	U	ug/kg	274	93.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851009** Date Collected: 10/23/2015 13:30 Matrix: Solid

Sample ID: **CS-LF007** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Biphenyl	102 U	U	ug/kg	102	13.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
4-Bromophenyl-phenylether	102 U	U	ug/kg	102	23.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Butylbenzylphthalate	102 U	U	ug/kg	102	26.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Caprolactam	274 U	U	ug/kg	274	74.1	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Carbazole	102 U	U	ug/kg	102	13.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
4-Chloro-3-methylphenol	274 U	U	ug/kg	274	15.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
4-Chloroaniline	274 U	U	ug/kg	274	136	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
bis(2-Chloroethoxy)methane	102 U	U	ug/kg	102	15.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
bis(2-Chloroethyl)ether	102 U	U	ug/kg	102	20.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
bis(2-Chloroisopropyl)ether	102 U	U	ug/kg	102	25.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2-Chloronaphthalene	102 U	U	ug/kg	102	14.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2-Chlorophenol	274 U	U	ug/kg	274	18.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
4-Chlorophenyl-phenylether	102 U	U	ug/kg	102	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Chrysene	102 U	U	ug/kg	102	13.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
mp-Cresol	274 U	U	ug/kg	274	15.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
o-Cresol	274 U	U	ug/kg	274	22.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Di-n-Butylphthalate	102 U	U	ug/kg	102	15.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Di-n-Octylphthalate	274 U	U	ug/kg	274	39.6	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Dibenzo(a,h)anthracene	102 U	U	ug/kg	102	12.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Dibenzofuran	102 U	U	ug/kg	102	11.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
1,2-Dichlorobenzene	102 U	U	ug/kg	102	13.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
1,3-Dichlorobenzene	102 U	U	ug/kg	102	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
1,4-Dichlorobenzene	102 U	U	ug/kg	102	17.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
3,3-Dichlorobenzidine	152 U	U	ug/kg	152	71.1	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2,4-Dichlorophenol	203 U	U	ug/kg	203	18.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2,6-Dichlorophenol	274 U	U	ug/kg	274	23.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Diethylphthalate	102 U	U	ug/kg	102	13.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Dimethoate	274 U	U	ug/kg	274	14.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2,4-Dimethylphenol	274 U	U	ug/kg	274	78.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Dimethylphthalate	102 U	U	ug/kg	102	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
1,2-Dinitrobenzene	102 U	U	ug/kg	102	24.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
1,4-Dinitrobenzene	102 U	U	ug/kg	102	23.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2,4-Dinitrophenol	203 U	U	ug/kg	203	65.0	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2,4-Dinitrotoluene	102 U	U	ug/kg	102	29.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2,6-Dinitrotoluene	102 U	U	ug/kg	102	24.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Diphenylamine	102 U	U	ug/kg	102	14.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
1,2-Diphenylhydrazine	102 U	U	ug/kg	102	13.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
bis(2-Ethylhexyl)phthalate	102 U	U	ug/kg	102	23.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851009** Date Collected: 10/23/2015 13:30 Matrix: Solid

Sample ID: **CS-LF007** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Fluoranthene	102 U	U	ug/kg	102	19.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Fluorene	102 U	U	ug/kg	102	20.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Hexachlorobenzene	102 U	U	ug/kg	102	19.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Hexachlorobutadiene	102 U	U	ug/kg	102	26.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Hexachlorocyclopentadiene	274 U	U	ug/kg	274	88.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Hexachloroethane	102 U	U	ug/kg	102	17.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Indeno(1,2,3-cd)pyrene	102 U	U	ug/kg	102	18.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Isophorone	102 U	U	ug/kg	102	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2-Methyl-4,6-dinitrophenol	274 U	U	ug/kg	274	58.9	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2-Methylnaphthalene	102 U	U	ug/kg	102	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2-Naphthylamine	274 U	U	ug/kg	274	67.0	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Naphthalene	102 U	U	ug/kg	102	24.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2-Nitroaniline	274 U	U	ug/kg	274	132	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
3-Nitroaniline	366 U	U	ug/kg	366	180	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
4-Nitroaniline	284 U	U	ug/kg	284	142	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Nitrobenzene	102 U	U	ug/kg	102	21.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2-Nitrophenol	274 U	U	ug/kg	274	27.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
4-Nitrophenol	274 U	U	ug/kg	274	103	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
N-Nitrosodi-n-butylamine	102 U	U	ug/kg	102	23.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
N-Nitrosodiethylamine	102 U	U	ug/kg	102	20.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
N-Nitrosodimethylamine	102 U	U	ug/kg	102	36.6	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
N-Nitroso-di-n-propylamine	102 U	U	ug/kg	102	17.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
N-Nitrosodiphenylamine	102 U	U	ug/kg	102	17.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
N-Nitrosopyrrolidine	102 U	U	ug/kg	102	19.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Pentachlorobenzene	102 U	U	ug/kg	102	24.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Pentachlorophenol	203 U	U	ug/kg	203	36.6	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Phenanthrene	102 U	U	ug/kg	102	14.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Phenol	274 U	U	ug/kg	274	15.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Pyrene	102 U	U	ug/kg	102	18.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Pyridine	274 U	U	ug/kg	274	24.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Resorcinol	102 U	U	ug/kg	102	23.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
1,2,4,5-Tetrachlorobenzene	102 U	U	ug/kg	102	15.2	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2,3,4,6-Tetrachlorophenol	274 U	U	ug/kg	274	21.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
1,2,4-Trichlorobenzene	102 U	U	ug/kg	102	23.4	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2,4,5-Trichlorophenol	274 U	U	ug/kg	274	20.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2,4,6-Trichlorophenol	203 U	U	ug/kg	203	20.3	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	68.5		%	37 - 123	SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851009** Date Collected: 10/23/2015 13:30 Matrix: Solid

Sample ID: **CS-LF007** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	64.1		%	45 - 105		SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
2-Fluorophenol (S)	66.8		%	35 - 104		SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Nitrobenzene-d5 (S)	63.5		%	41 - 110		SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Phenol-d5 (S)	63.9		%	40 - 100		SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
Terphenyl-d14 (S)	70.4		%	38 - 113		SW846 8270D	10/26/15	BS	10/27/15 13:49	CGS	A
PCBs											
Total Polychlorinated Biphenyl	0.032 U	U	mg/kg	0.032	0.032	SW846 8082A	10/27/15	BS	10/27/15 17:17	EGO	A
Aroclor-1016	0.032 U	U	mg/kg	0.032	0.0057	SW846 8082A	10/27/15	BS	10/27/15 17:17	EGO	A
Aroclor-1221	0.032 U	U	mg/kg	0.032	0.0029	SW846 8082A	10/27/15	BS	10/27/15 17:17	EGO	A
Aroclor-1232	0.032 U	U	mg/kg	0.032	0.0057	SW846 8082A	10/27/15	BS	10/27/15 17:17	EGO	A
Aroclor-1242	0.032 U	U	mg/kg	0.032	0.0086	SW846 8082A	10/27/15	BS	10/27/15 17:17	EGO	A
Aroclor-1248	0.032 U	U	mg/kg	0.032	0.0057	SW846 8082A	10/27/15	BS	10/27/15 17:17	EGO	A
Aroclor-1254	0.032 U	U	mg/kg	0.032	0.0057	SW846 8082A	10/27/15	BS	10/27/15 17:17	EGO	A
Aroclor-1260	0.032 U	U	mg/kg	0.032	0.0057	SW846 8082A	10/27/15	BS	10/27/15 17:17	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	59.5		%	46 - 120		SW846 8082A	10/27/15	BS	10/27/15 17:17	EGO	A
Tetrachloro-m-xylene (S)	62.1		%	52 - 115		SW846 8082A	10/27/15	BS	10/27/15 17:17	EGO	A
PESTICIDES											
Aldrin	1.6 U	U	ug/kg	1.6	0.53	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
alpha-BHC	1.6 U	U	ug/kg	1.6	0.14	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
beta-BHC	1.6 U	U	ug/kg	1.6	0.17	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
delta-BHC	1.6 U	U	ug/kg	1.6	0.12	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
gamma-BHC	1.6 U	U	ug/kg	1.6	0.13	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
alpha-Chlordane	1.6 U	U	ug/kg	1.6	0.17	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
gamma-Chlordane	1.6 U	U	ug/kg	1.6	0.28	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
4,4'-DDD	3.2 U	U	ug/kg	3.2	0.26	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
4,4'-DDE	3.2 U	U	ug/kg	3.2	0.43	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
4,4'-DDT	2.0J	J	ug/kg	3.2	0.36	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Dieldrin	3.2 U	U	ug/kg	3.2	0.36	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Endosulfan I	1.6 U	U	ug/kg	1.6	0.20	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Endosulfan II	3.2 U	U	ug/kg	3.2	0.66	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Endosulfan Sulfate	3.2 U	U	ug/kg	3.2	0.21	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Endrin	3.2 U	U	ug/kg	3.2	0.23	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Endrin Aldehyde	3.2 U	U	ug/kg	3.2	0.34	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Endrin Ketone	3.2 U	U	ug/kg	3.2	0.44	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Heptachlor	1.6 U	U	ug/kg	1.6	0.16	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851009** Date Collected: 10/23/2015 13:30 Matrix: Solid

Sample ID: **CS-LF007** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Heptachlor Epoxide	1.6 U	U	ug/kg	1.6	0.16	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Methoxychlor	3.2 U	U	ug/kg	3.2	0.42	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Toxaphene	33.5 U	U	ug/kg	33.5	5.6	SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	67.8		%	30 - 135		SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
Tetrachloro-m-xylene (S)	57.7		%	30 - 111		SW846 8081B	10/27/15	BS	10/28/15 13:15	RWS	A
HERBICIDES											
2,4-D	67.8 U	U	ug/kg	67.8	26.3	SW846 8151A	10/26/15	RMP	10/28/15 09:48	KJH	A
2,4-DB	67.8 U	U	ug/kg	67.8	36.4	SW846 8151A	10/26/15	RMP	10/28/15 09:48	KJH	A
Dalapon	67.8 U	U	ug/kg	67.8	17.2	SW846 8151A	10/26/15	RMP	10/28/15 09:48	KJH	A
Dicamba	67.8 U	U	ug/kg	67.8	24.3	SW846 8151A	10/26/15	RMP	10/28/15 09:48	KJH	A
Dichloroprop	67.8 U	U	ug/kg	67.8	27.3	SW846 8151A	10/26/15	RMP	10/28/15 09:48	KJH	A
Dinoseb	169 U	U	ug/kg	169	34.4	SW846 8151A	10/26/15	RMP	10/28/15 09:48	KJH	A
4-Nitrophenol	67.8 U	U	ug/kg	67.8	23.3	SW846 8151A	10/26/15	RMP	10/28/15 09:48	KJH	A
2,4,5-T	67.8 U	U	ug/kg	67.8	28.3	SW846 8151A	10/26/15	RMP	10/28/15 09:48	KJH	A
2,4,5-TP	67.8 U	U	ug/kg	67.8	31.4	SW846 8151A	10/26/15	RMP	10/28/15 09:48	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	76.6		%	30 - 153		SW846 8151A	10/26/15	RMP	10/28/15 09:48	KJH	A
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	11/4/15	MLM	11/5/15 07:34	LJF	A
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.39	SW846 7196A	10/27/15	MLM	10/28/15 15:00	MLM	A
Ignitability	not ignitable	3				SW846 1030			11/6/15 10:00	BPC	A
Moisture	2.2		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
Sulfide, Reactive	3.2J	J	ppm	6.2	1.2	SW846 7.3	11/4/15	MLM	11/5/15 19:00	MLM	A
Total Solids	97.8		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
METALS											
Aluminum, Total	4510		mg/kg	8.5	2.8	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Antimony, Total	1.7 U	U	mg/kg	1.7	0.57	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Arsenic, Total	1.7 U	U	mg/kg	1.7	0.57	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Barium, Total	13.4		mg/kg	0.85	0.28	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Beryllium, Total	0.85 U	U	mg/kg	0.85	0.28	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Cadmium, Total	0.31J	J	mg/kg	0.43	0.14	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Calcium, Total	316		mg/kg	8.5	2.8	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Chromium, Total	4.9		mg/kg	0.85	0.28	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Cobalt, Total	3.3		mg/kg	0.85	0.28	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851009** Date Collected: 10/23/2015 13:30 Matrix: Solid

Sample ID: **CS-LF007** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Copper, Total	6.9		mg/kg	1.7	0.57	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Iron, Total	26500		mg/kg	8.5	2.8	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Lead, Total	3.6		mg/kg	1.7	0.57	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Magnesium, Total	1040		mg/kg	8.5	2.8	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Manganese, Total	219		mg/kg	0.85	0.28	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Mercury, Total	0.043 U	U	mg/kg	0.043	0.014	SW846 7471B	10/28/15	MNP	10/28/15 14:15	MNP	A2
Nickel, Total	8.5		mg/kg	1.7	0.57	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Potassium, Total	135		mg/kg	42.6	14.2	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Selenium, Total	4.3 U	U	mg/kg	4.3	1.4	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Silver, Total	0.43 U	U	mg/kg	0.43	0.14	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Sodium, Total	25.7J	J	mg/kg	42.6	14.2	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Thallium, Total	2.6 U	U	mg/kg	2.6	0.85	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Vanadium, Total	9.2		mg/kg	0.85	0.28	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1
Zinc, Total	128		mg/kg	1.7	0.57	SW846 6010C	10/25/15	JPS	10/27/15 02:57	TSS	A1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851010** Date Collected: 10/23/2015 12:45 Matrix: Solid

Sample ID: **CS-DUP1** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	641 U	U	ug/kg	641	199	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Benzene	64.1 U	U	ug/kg	64.1	14.7	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Bromochloromethane	64.1 U	U	ug/kg	64.1	20.5	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Bromodichloromethane	64.1 U	U	ug/kg	64.1	17.3	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Bromoform	64.1 U	U	ug/kg	64.1	25.6	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Bromomethane	111		ug/kg	64.1	25.0	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
2-Butanone	641 U	U	ug/kg	641	115	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Carbon Disulfide	64.1 U	U	ug/kg	64.1	14.7	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Carbon Tetrachloride	64.1 U	U	ug/kg	64.1	19.9	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Chlorobenzene	64.1 U	U	ug/kg	64.1	12.2	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Chlorodibromomethane	64.1 U	U	ug/kg	64.1	28.8	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Chloroethane	64.1 U	U	ug/kg	64.1	21.1	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Chloroform	64.1 U	U	ug/kg	64.1	13.5	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Chloromethane	33.6J	J	ug/kg	64.1	19.9	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Cyclohexane	64.1 U	U	ug/kg	64.1	18.6	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,2-Dibromo-3-chloropropane	449 U	U	ug/kg	449	96.1	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,2-Dibromoethane	64.1 U	U	ug/kg	64.1	17.9	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,2-Dichlorobenzene	64.1 U	U	ug/kg	64.1	24.3	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,3-Dichlorobenzene	64.1 U	U	ug/kg	64.1	16.0	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,4-Dichlorobenzene	64.1 U	U	ug/kg	64.1	17.3	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Dichlorodifluoromethane	64.1 U	U	ug/kg	64.1	21.1	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,1-Dichloroethane	64.1 U	U	ug/kg	64.1	17.9	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,2-Dichloroethane	64.1 U	U	ug/kg	64.1	20.5	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,1-Dichloroethene	64.1 U	U	ug/kg	64.1	18.6	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
cis-1,2-Dichloroethene	64.1 U	U	ug/kg	64.1	20.5	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
trans-1,2-Dichloroethene	64.1 U	U	ug/kg	64.1	16.7	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,2-Dichloropropane	64.1 U	U	ug/kg	64.1	15.4	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
cis-1,3-Dichloropropene	64.1 U	U	ug/kg	64.1	19.9	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
trans-1,3-Dichloropropene	64.1 U	U	ug/kg	64.1	18.6	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,4-Dioxane	20500 U	U	ug/kg	20500	3770	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Ethylbenzene	64.1 U	U	ug/kg	64.1	21.8	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Freon 113	64.1 U	U	ug/kg	64.1	16.7	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
2-Hexanone	320 U	U	ug/kg	320	83.3	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Isopropylbenzene	64.1 U	U	ug/kg	64.1	14.1	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Methyl acetate	128 U	U	ug/kg	128	20.5	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Methyl cyclohexane	64.1 U	U	ug/kg	64.1	19.2	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851010** Date Collected: 10/23/2015 12:45 Matrix: Solid

Sample ID: **CS-DUP1** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	64.1 U	U	ug/kg	64.1	21.1	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
4-Methyl-2-Pentanone(MIBK)	320 U	U	ug/kg	320	96.1	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Methylene Chloride	190		ug/kg	64.1	28.8	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Styrene	64.1 U	U	ug/kg	64.1	15.4	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,1,2,2-Tetrachloroethane	64.1 U	U	ug/kg	64.1	21.8	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Tetrachloroethene	64.1 U	U	ug/kg	64.1	22.4	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Toluene	64.1 U	U	ug/kg	64.1	14.7	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,2,3-Trichlorobenzene	128 U	U	ug/kg	128	59.6	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,2,4-Trichlorobenzene	128 U	U	ug/kg	128	52.5	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,1,1-Trichloroethane	64.1 U	U	ug/kg	64.1	14.1	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
1,1,2-Trichloroethane	64.1 U	U	ug/kg	64.1	21.1	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Trichloroethene	64.1 U	U	ug/kg	64.1	21.1	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Trichlorofluoromethane	64.1 U	U	ug/kg	64.1	15.4	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Vinyl Chloride	64.1 U	U	ug/kg	64.1	19.2	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
o-Xylene	64.1 U	U	ug/kg	64.1	21.1	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
mp-Xylene	128 U	U	ug/kg	128	33.3	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99		%	71 - 146	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
4-Bromofluorobenzene (S)	106		%	46 - 138	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Dibromofluoromethane (S)	96		%	42 - 143	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2
Toluene-d8 (S)	107		%	54 - 141	SW846 8260C	10/24/15	CPK	10/29/15 13:33	DD	A2

SEMIVOLATILES

Acenaphthene	108 U	U	ug/kg	108	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Acenaphthylene	108 U	U	ug/kg	108	11.9	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Acetophenone	108 U	U	ug/kg	108	10.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Aniline	291 U	U	ug/kg	291	149	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Anthracene	108 U	U	ug/kg	108	10.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Atrazine	108 U	U	ug/kg	108	28.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Benzaldehyde	291 U	U	ug/kg	291	45.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Benzidine	863 U	U	ug/kg	863	425	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Benzo(a)anthracene	108 U	U	ug/kg	108	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Benzo(a)pyrene	108 U	U	ug/kg	108	17.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Benzo(b)fluoranthene	108 U	U	ug/kg	108	25.9	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Benzo(g,h,i)perylene	108 U	U	ug/kg	108	22.6	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Benzoic acid	582 U	U	ug/kg	582	132	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Benzo(k)fluoranthene	108 U	U	ug/kg	108	20.5	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Benzyl Alcohol	291 U	U	ug/kg	291	99.2	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851010** Date Collected: 10/23/2015 12:45 Matrix: Solid

Sample ID: **CS-DUP1** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Biphenyl	108 U	U	ug/kg	108	14.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
4-Bromophenyl-phenylether	108 U	U	ug/kg	108	24.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Butylbenzylphthalate	108 U	U	ug/kg	108	28.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Caprolactam	291 U	U	ug/kg	291	78.7	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Carbazole	108 U	U	ug/kg	108	14.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
4-Chloro-3-methylphenol	291 U	U	ug/kg	291	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
4-Chloroaniline	291 U	U	ug/kg	291	145	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
bis(2-Chloroethoxy)methane	108 U	U	ug/kg	108	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
bis(2-Chloroethyl)ether	108 U	U	ug/kg	108	21.6	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
bis(2-Chloroisopropyl)ether	108 U	U	ug/kg	108	27.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2-Chloronaphthalene	108 U	U	ug/kg	108	15.1	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2-Chlorophenol	291 U	U	ug/kg	291	19.4	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
4-Chlorophenyl-phenylether	108 U	U	ug/kg	108	17.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Chrysene	108 U	U	ug/kg	108	14.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
mp-Cresol	291 U	U	ug/kg	291	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
o-Cresol	291 U	U	ug/kg	291	23.7	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Di-n-Butylphthalate	1430		ug/kg	108	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Di-n-Octylphthalate	291 U	U	ug/kg	291	42.1	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Dibenzo(a,h)anthracene	108 U	U	ug/kg	108	12.9	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Dibenzofuran	108 U	U	ug/kg	108	11.9	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
1,2-Dichlorobenzene	108 U	U	ug/kg	108	14.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
1,3-Dichlorobenzene	108 U	U	ug/kg	108	17.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
1,4-Dichlorobenzene	108 U	U	ug/kg	108	18.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
3,3-Dichlorobenzidine	162 U	U	ug/kg	162	75.5	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2,4-Dichlorophenol	216 U	U	ug/kg	216	19.4	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2,6-Dichlorophenol	291 U	U	ug/kg	291	24.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Diethylphthalate	108 U	U	ug/kg	108	14.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Dimethoate	291 U	U	ug/kg	291	15.1	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2,4-Dimethylphenol	291 U	U	ug/kg	291	83.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Dimethylphthalate	108 U	U	ug/kg	108	17.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
1,2-Dinitrobenzene	108 U	U	ug/kg	108	25.9	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
1,4-Dinitrobenzene	108 U	U	ug/kg	108	24.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2,4-Dinitrophenol	216 U	U	ug/kg	216	69.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2,4-Dinitrotoluene	108 U	U	ug/kg	108	31.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2,6-Dinitrotoluene	108 U	U	ug/kg	108	25.9	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Diphenylamine	108 U	U	ug/kg	108	15.1	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
1,2-Diphenylhydrazine	108 U	U	ug/kg	108	14.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
bis(2-Ethylhexyl)phthalate	108 U	U	ug/kg	108	24.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851010** Date Collected: 10/23/2015 12:45 Matrix: Solid

Sample ID: **CS-DUP1** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Fluoranthene	108 U	U	ug/kg	108	20.5	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Fluorene	108 U	U	ug/kg	108	21.6	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Hexachlorobenzene	108 U	U	ug/kg	108	20.5	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Hexachlorobutadiene	108 U	U	ug/kg	108	28.0	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Hexachlorocyclopentadiene	291 U	U	ug/kg	291	93.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Hexachloroethane	108 U	U	ug/kg	108	18.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Indeno(1,2,3-cd)pyrene	108 U	U	ug/kg	108	19.4	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Isophorone	108 U	U	ug/kg	108	17.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2-Methyl-4,6-dinitrophenol	291 U	U	ug/kg	291	62.5	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2-Methylnaphthalene	108 U	U	ug/kg	108	17.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2-Naphthylamine	291 U	U	ug/kg	291	71.2	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Naphthalene	108 U	U	ug/kg	108	25.9	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2-Nitroaniline	291 U	U	ug/kg	291	140	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
3-Nitroaniline	388 U	U	ug/kg	388	191	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
4-Nitroaniline	302 U	U	ug/kg	302	151	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Nitrobenzene	108 U	U	ug/kg	108	22.6	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2-Nitrophenol	291 U	U	ug/kg	291	29.1	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
4-Nitrophenol	291 U	U	ug/kg	291	109	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
N-Nitrosodi-n-butylamine	108 U	U	ug/kg	108	24.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
N-Nitrosodiethylamine	108 U	U	ug/kg	108	21.6	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
N-Nitrosodimethylamine	108 U	U	ug/kg	108	38.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
N-Nitroso-di-n-propylamine	108 U	U	ug/kg	108	18.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
N-Nitrosodiphenylamine	108 U	U	ug/kg	108	18.3	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
N-Nitrosopyrrolidine	108 U	U	ug/kg	108	20.5	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Pentachlorobenzene	108 U	U	ug/kg	108	25.9	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Pentachlorophenol	216 U	U	ug/kg	216	38.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Phenanthrene	108 U	U	ug/kg	108	15.1	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Phenol	291 U	U	ug/kg	291	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Pyrene	108 U	U	ug/kg	108	19.4	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Pyridine	291 U	U	ug/kg	291	25.9	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Resorcinol	108 U	U	ug/kg	108	24.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
1,2,4,5-Tetrachlorobenzene	108 U	U	ug/kg	108	16.2	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2,3,4,6-Tetrachlorophenol	291 U	U	ug/kg	291	22.6	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
1,2,4-Trichlorobenzene	108 U	U	ug/kg	108	24.8	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2,4,5-Trichlorophenol	291 U	U	ug/kg	291	21.6	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2,4,6-Trichlorophenol	216 U	U	ug/kg	216	21.6	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	78		%	37 - 123	SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851010** Date Collected: 10/23/2015 12:45 Matrix: Solid

Sample ID: **CS-DUP1** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	65.4		%	45 - 105		SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
2-Fluorophenol (S)	75.9		%	35 - 104		SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Nitrobenzene-d5 (S)	69.9		%	41 - 110		SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Phenol-d5 (S)	74.1		%	40 - 100		SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
Terphenyl-d14 (S)	99.1		%	38 - 113		SW846 8270D	10/26/15	BS	10/27/15 13:25	CGS	A
PCBs											
Total Polychlorinated Biphenyl	0.037 U	U	mg/kg	0.037	0.037	SW846 8082A	10/27/15	BS	10/27/15 17:28	EGO	A
Aroclor-1016	0.037 U	U	mg/kg	0.037	0.0067	SW846 8082A	10/27/15	BS	10/27/15 17:28	EGO	A
Aroclor-1221	0.037 U	U	mg/kg	0.037	0.0033	SW846 8082A	10/27/15	BS	10/27/15 17:28	EGO	A
Aroclor-1232	0.037 U	U	mg/kg	0.037	0.0067	SW846 8082A	10/27/15	BS	10/27/15 17:28	EGO	A
Aroclor-1242	0.037 U	U	mg/kg	0.037	0.010	SW846 8082A	10/27/15	BS	10/27/15 17:28	EGO	A
Aroclor-1248	0.037 U	U	mg/kg	0.037	0.0067	SW846 8082A	10/27/15	BS	10/27/15 17:28	EGO	A
Aroclor-1254	0.037 U	U	mg/kg	0.037	0.0067	SW846 8082A	10/27/15	BS	10/27/15 17:28	EGO	A
Aroclor-1260	0.037 U	U	mg/kg	0.037	0.0067	SW846 8082A	10/27/15	BS	10/27/15 17:28	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	56.2		%	46 - 120		SW846 8082A	10/27/15	BS	10/27/15 17:28	EGO	A
Tetrachloro-m-xylene (S)	58.1		%	52 - 115		SW846 8082A	10/27/15	BS	10/27/15 17:28	EGO	A
PESTICIDES											
Aldrin	1.9 U	U	ug/kg	1.9	0.61	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
alpha-BHC	1.9 U	U	ug/kg	1.9	0.17	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
beta-BHC	1.9 U	U	ug/kg	1.9	0.20	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
delta-BHC	1.9 U	U	ug/kg	1.9	0.14	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
gamma-BHC	1.9 U	U	ug/kg	1.9	0.16	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
alpha-Chlordane	1.9 U	U	ug/kg	1.9	0.20	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
gamma-Chlordane	1.9 U	U	ug/kg	1.9	0.32	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
4,4'-DDD	3.7 U	U	ug/kg	3.7	0.30	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
4,4'-DDE	3.7 U	U	ug/kg	3.7	0.50	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
4,4'-DDT	3.7 U	U	ug/kg	3.7	0.42	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Dieldrin	3.7 U	U	ug/kg	3.7	0.42	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Endosulfan I	1.9 U	U	ug/kg	1.9	0.23	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Endosulfan II	3.7 U	U	ug/kg	3.7	0.77	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Endosulfan Sulfate	3.7 U	U	ug/kg	3.7	0.24	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Endrin	3.7 U	U	ug/kg	3.7	0.27	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Endrin Aldehyde	3.7 U	U	ug/kg	3.7	0.40	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Endrin Ketone	3.7 U	U	ug/kg	3.7	0.51	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Heptachlor	1.9 U	U	ug/kg	1.9	0.19	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851010** Date Collected: 10/23/2015 12:45 Matrix: Solid

Sample ID: **CS-DUP1** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Heptachlor Epoxide	1.9 U	U	ug/kg	1.9	0.19	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Methoxychlor	3.7 U	U	ug/kg	3.7	0.49	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Toxaphene	39.0 U	U	ug/kg	39.0	6.5	SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	62.7		%	30 - 135		SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
Tetrachloro-m-xylene (S)	54.1		%	30 - 111		SW846 8081B	10/27/15	BS	10/28/15 13:31	RWS	A
HERBICIDES											
2,4-D	76.1 U	U	ug/kg	76.1	29.5	SW846 8151A	10/26/15	RMP	10/28/15 10:25	KJH	A
2,4-DB	76.1 U	U	ug/kg	76.1	40.9	SW846 8151A	10/26/15	RMP	10/28/15 10:25	KJH	A
Dalapon	76.1 U	U	ug/kg	76.1	19.3	SW846 8151A	10/26/15	RMP	10/28/15 10:25	KJH	A
Dicamba	76.1 U	U	ug/kg	76.1	27.3	SW846 8151A	10/26/15	RMP	10/28/15 10:25	KJH	A
Dichloroprop	76.1 U	U	ug/kg	76.1	30.7	SW846 8151A	10/26/15	RMP	10/28/15 10:25	KJH	A
Dinoseb	190 U	U	ug/kg	190	38.6	SW846 8151A	10/26/15	RMP	10/28/15 10:25	KJH	A
4-Nitrophenol	76.1 U	U	ug/kg	76.1	26.1	SW846 8151A	10/26/15	RMP	10/28/15 10:25	KJH	A
2,4,5-T	76.1 U	U	ug/kg	76.1	31.8	SW846 8151A	10/26/15	RMP	10/28/15 10:25	KJH	A
2,4,5-TP	76.1 U	U	ug/kg	76.1	35.2	SW846 8151A	10/26/15	RMP	10/28/15 10:25	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	69.5		%	30 - 153		SW846 8151A	10/26/15	RMP	10/28/15 10:25	KJH	A
WET CHEMISTRY											
Hexavalent Chromium	2.3 U	U	mg/kg	2.3	0.44	SW846 7196A	10/27/15	MLM	10/28/15 15:00	MLM	A
Moisture	12.5		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
Total Solids	87.5		%	0.1	0.01	S2540G-11			10/27/15 11:10	EMW	A
METALS											
Aluminum, Total	5030		mg/kg	10.4	3.5	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Antimony, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Arsenic, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Barium, Total	16.6		mg/kg	1.0	0.35	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Beryllium, Total	1.0 U	U	mg/kg	1.0	0.35	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Cadmium, Total	0.52 U	U	mg/kg	0.52	0.17	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Calcium, Total	177		mg/kg	10.4	3.5	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Chromium, Total	4.4		mg/kg	1.0	0.35	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Cobalt, Total	2.6		mg/kg	1.0	0.35	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Copper, Total	5.0		mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Iron, Total	8210		mg/kg	10.4	3.5	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Lead, Total	2.6		mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

Lab ID: **2103851010** Date Collected: 10/23/2015 12:45 Matrix: Solid

Sample ID: **CS-DUP1** Date Received: 10/24/2015 09:10

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Magnesium, Total	880		mg/kg	10.4	3.5	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Manganese, Total	201		mg/kg	1.0	0.35	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Mercury, Total	0.056 U	U	mg/kg	0.056	0.018	SW846 7471B	10/28/15	MNP	10/28/15 14:16	MNP	A2
Nickel, Total	6.0		mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Potassium, Total	139		mg/kg	52.0	17.4	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Selenium, Total	5.2 U	U	mg/kg	5.2	1.7	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Silver, Total	0.52 U	U	mg/kg	0.52	0.17	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Sodium, Total	31.3J	J	mg/kg	52.0	17.4	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Thallium, Total	3.1 U	U	mg/kg	3.1	1.0	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Vanadium, Total	9.2		mg/kg	1.0	0.35	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1
Zinc, Total	13.9		mg/kg	2.1	0.69	SW846 6010C	10/25/15	JPS	10/27/15 03:16	TSS	A1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2103851001	1	CS-LF010	SW846 8260C	2-Butanone
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte 2-Butanone. The % Recovery was reported as 60.4 and the control limits were 64 to 148.				
2103851001	2	CS-LF010	SW846 8260C	2-Hexanone
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte 2-Hexanone. The % Recovery was reported as 60.3 and the control limits were 62 to 147.				
2103851001	3	CS-LF010	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2103851002	1	CS-LF008	SW846 8260C	2-Butanone
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte 2-Butanone. The % Recovery was reported as 60.4 and the control limits were 64 to 148.				
2103851002	2	CS-LF008	SW846 8260C	2-Hexanone
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte 2-Hexanone. The % Recovery was reported as 60.3 and the control limits were 62 to 147.				
2103851002	3	CS-LF008	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2103851003	1	CS-LF009	SW846 8260C	2-Butanone
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte 2-Butanone. The % Recovery was reported as 60.4 and the control limits were 64 to 148.				
2103851003	2	CS-LF009	SW846 8260C	2-Hexanone
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte 2-Hexanone. The % Recovery was reported as 60.3 and the control limits were 62 to 147.				
2103851003	3	CS-LF009	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2103851004	1	CS-LF006	SW846 8082A	Aroclor-1016
The QC sample type MSD for method SW846 8082A was outside the control limits for the analyte Aroclor-1016. The RPD was reported as 40.2 and the upper control limit is 40.				
2103851004	2	CS-LF006	SW846 8082A	Aroclor-1260
The QC sample type MSD for method SW846 8082A was outside the control limits for the analyte Aroclor-1260. The RPD was reported as 41.6 and the upper control limit is 40.				
2103851004	3	CS-LF006	SW846 6010C	Magnesium, Total
The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.				
2103851004	48	CS-LF006	SW846 8260C	Freon 113
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 145 and the control limits were 42 to 109.				
2103851004	49	CS-LF006	SW846 8260C	Freon 113
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 130 and the control limits were 42 to 109.				
2103851004	50	CS-LF006	SW846 8260C	trans-1,2-Dichloroethene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte trans-1,2-Dichloroethene. The % Recovery was reported as 138 and the control limits were 69 to 130.				
2103851004	51	CS-LF006	SW846 8260C	Cyclohexane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 153 and the control limits were 63 to 151.				
2103851004	52	CS-LF006	SW846 8260C	1,2,4-Trichlorobenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2,4-Trichlorobenzene. The % Recovery was reported as 223 and the control limits were 61 to 134.				

ANALYTICAL RESULTS

Workorder: 2103851 CBR004|GE MRFA 154035-04000000

2103851004	53	CS-LF006	SW846 8260C	1,2,4-Trichlorobenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2,4-Trichlorobenzene. The % Recovery was reported as 210 and the control limits were 61 to 134.				
2103851004	54	CS-LF006	SW846 8260C	1,2,3-Trichlorobenzene
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte 1,2,3-Trichlorobenzene. The % Recovery was reported as 324 and the control limits were 41 to 143.				
2103851004	55	CS-LF006	SW846 8260C	1,2,3-Trichlorobenzene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,2,3-Trichlorobenzene. The % Recovery was reported as 324 and the control limits were 41 to 143.				
2103851004	56	CS-LF006	SW846 8260C	Methyl cyclohexane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 141 and the control limits were 70 to 130.				
2103851004	57	CS-LF006	SW846 8260C	Methyl cyclohexane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 140 and the control limits were 70 to 130.				
2103851004	58	CS-LF006	SW846 8260C	Methyl acetate
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 136 and the control limits were 70 to 130.				
2103851004	59	CS-LF006	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2103851005	7	CS-LF005	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2103851006	7	CS-LF011	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2103851007	1	CS-LF004	SW846 8260C	2-Butanone
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte 2-Butanone. The % Recovery was reported as 60.4 and the control limits were 64 to 148.				
2103851007	2	CS-LF004	SW846 8260C	2-Hexanone
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte 2-Hexanone. The % Recovery was reported as 60.3 and the control limits were 62 to 147.				
2103851007	3	CS-LF004	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2103851008	7	CS-LF003	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2103851009	1	CS-LF007	SW846 8260C	2-Butanone
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte 2-Butanone. The % Recovery was reported as 60.4 and the control limits were 64 to 148.				
2103851009	2	CS-LF007	SW846 8260C	2-Hexanone
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte 2-Hexanone. The % Recovery was reported as 60.3 and the control limits were 62 to 147.				
2103851009	3	CS-LF007	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				

Friday, November 06, 2015 1:47:49 PM
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ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

VAF

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE

* 2 1 0 3 8 5 1 *

Project Name	Project Number
GE MRFA	154035-04000000
Project Manager	**Report CC**
Brian Neumann	

Company/Address
13 British American Blvd.
Latham, NY 12110

Phone #	Email
518-785-2354	brian.neumann@cbi.com
Sampler's Signature	**Sampler's Printed Name**
	Brian Neumann

ANALYSIS REQUESTED (Include Method Number and Cont

PRESERVATIVE

NUMBER OF CONTAINERS

Cooler Temp: 1 °C
Cooler #: 1
Therm ID: 294
Ship Carrier: UPS FedEx DHL
Tracking #: 8307 5538 0470

Custody Seals Present? (if present) Seals Intact? Received on Ice? COC/Labels Complete Cont in Good Cond? Correct Containers? Correct Samp Vol? Correct Preservation? Headspace/Volatiles?

Initials: N N Y

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	# CONTAINERS	Cr+6	TCL VOC	TCL SVOC	Herbicides	Pesticides	PCBs	TAL Metals	REMARKS/ ALTERNATE DESCRIPTION
CS-LF010		10-23-15	1225	Soil	3	✓	✓	✓	✓	✓	✓	✓	
CS-LF008		10-23-15	1230	Soil	3	✓	✓	✓	✓	✓	✓	✓	
CS-LF009		10-23-15	1240	Soil	3	✓	✓	✓	✓	✓	✓	✓	
CS-LF006		10-23-15	1250	Soil	3	✓	✓	✓	✓	✓	✓	✓	
CS-LF006 MS/MSD		10-23-15	1250	Soil	3	✓	✓	✓	✓	✓	✓	✓	2 received
CS-LF005		10-23-15	1300	Soil	3	✓	✓	✓	✓	✓	✓	✓	
CS-LF011		10-23-15	1308	Soil	3	✓	✓	✓	✓	✓	✓	✓	2 received
CS-LF004		10-23-15	1315	Soil	3	✓	✓	✓	✓	✓	✓	✓	2 received
CS-LF003		10-23-15	1322	Soil	3	✓	✓	✓	✓	✓	✓	✓	(BH) 10/23/15 3 received
~~CS-LF007~~		~~10-23-15~~	~~1330~~	~~Soil~~	~~3~~	✓	✓	✓	✓	✓	✓	✓	OK - No crossout?
CS-DUP1		10-23-15	1245	Soil	3	✓	✓	✓	✓	✓	✓	✓	

SPECIAL INSTRUCTIONS/COMMENTS
Metals

~~1 received without Label~~
~~ONE, 3 recvd for 006 MS/MSD, 11, 4, 7~~
all correct

Report Requirements – NYSDEC ASP Category B CLP

PS 10/24

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ✓ 3 day
___ 4 day X 5 day

REQUESTED REPORT DATE
COB WED 10/28/15

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
✓ SEE NOTE
Edata ✓ Yes ___ No

INVOICE INFORMATION
PO # 962015
BILL TO: PO DIRECTIONS ALREADY PROVIDED

STATE WHERE SAMPLES WERE COLLECTED NY

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature PS ALS	Signature	Signature
Printed Name Brian Neumann	Printed Name Dina Avers	Printed Name Dina Avers	Printed Name Paul Spicer	Printed Name	Printed Name
Firm CB&I	Firm ALS ENV.	Firm ALS ENV.	Firm ALS	Firm	Firm
Date/Time 10/23/15 @ ~~1630~~ 1535	Date/Time 10/23/15 1535	Date/Time 10/23/15 1700	Date/Time 10/24/15 0910	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

LMG 10/24/15 H03

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Attachment D

Field Notes

Field Activity Daily Log

DATE	05	23	16
NO.			
SHEET	1	OF	1

Project Name: GE-Luther Forest Drum Excavation
Project No. 154035/155446 GE LF
Field Activity Subject: Site Orientation / Site Setup
Description of Daily Activities and Events:

0700 - Onsite at southgate but told to go to Stonebreak gate and Projects Building by the security gaurd.
0830 - Meet Hepaco and Joe Naselli (JN) outside south gate and mob onsite; wait for Brian Newman (BN) and EPA at gravel parking lot (staging); mob as group to Projects building for badges and safety orientation with GE security. A.N.
~~0900~~ -
0900 - Back at staging; go through HASP and JSA during tailgate/safety meeting.
1000 - Start site walk with Hepaco to walk through logistics.
1040 - Greg McElroy (GM) onsite; BN take through badging process.
1200 - Lunch break, all offsite.
1300 - End lunch, back onsite. Start moving equipment down to excavation area; start grubbing with chainsaw/excavator; remove section of fence for support zone/decon line;
1540 - Hepaco secures fence with straps to pull closed; Hepacco offsite
1545 - Security informs us that fence security is not adequate; we add sheet of plywood to gap and secure with two additional straps that cannot be reached from outside fence
1600 - All offsite

A.N.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: AM: 60°F Sunny PM: 85°F Sunny	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE: A. Norvelle	
SIGNATURE:	DATE: 5-23-16

0.25 in x 0.25 in

Form Number: 139_3
Rev. 01-16-13

Field Activity Daily Log

DATE	05	24	16
NO.			
SHEET	1	OF	

Project Name: GE-Luther Forest Drum Excavation Project No. 154035/155446 GE LF

Field Activity Subject: Site setup

Description of Daily Activities and Events:

0800 - Onsite with Greg McElroy (GM), Joe Naselli (JS), Weston, and Hepaco; tailgate/safety meeting; discuss securing fence better for security.
0845 - Resume site setup operations including brush clearing and staging area/support zone.
1130 - Hepaco offsite for lunch.
1230 - Hepaco back onsite; mob chipper, which arrived during lunch, down to excavation; do JSA for chipping and start chipping of brush.
1350 - Issues with chipper, stop to try and repair possible jam.
1430 - Brian Neuman (BN) onsite, talk about status and wait for Kris Goodman
1500 - Kris onsite, talk about logistics and issues/plan moving forward; start laying down decon area and closing fence gap.
1645 - Call security to inspect fence closure and to lock double-gate.
1710 - All personnel offsite; Gate closed and fence given the okay by David. B. with GF Security

A.N.

VISITORS ON SITE: Bonnie with EPA	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —
WEATHER CONDITIONS: AM: 54°F, cloudy/overcast, wind at 5mph NNW PM: 75°F, cloudy/overcast	IMPORTANT TELEPHONE CALLS: —
CB&I PERSONNEL ON SITE: A. Norrelle, J. Naselli, G. McElroy	
SIGNATURE:	DATE:

Field Activity Daily Log

DATE	05	25	16
NO.			
SHEET	1	OF	1

Project Name: Drum Excavation MRFA Project No. 154035/155446
GE LF

Field Activity Subject: Offsite / Office work

Description of Daily Activities and Events:

0800 - Meet Joe Naselli at site to hand off paperwork / HASP; mob to office

0900 - Office work rest of day.

A.N.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE: A. Norvelle	
SIGNATURE:	DATE: 5-25-16

0.25 in x 0.25 in

Form Number: 139_3
Rev. 01-18-13

Field Activity Daily Log

DATE	05	26	16
NO.			
SHEET	1	OF	1

Project Name: Drum Excavation MRFA Project No. 154035/155446

Field Activity Subject: Setup and Drum excavation/sampling GE LF

Description of Daily Activities and Events:

0800 - Onsite with Hepaco, Brian Neumann (BN), Greg McElroy (GM), and Joe Naselli (JN); tailgate/safety meeting; discuss sampling, Level B, and setup to be completed.

0940 - Setup for equipment rinse sample from excavator bucket prior to excavation.

1120 - Collect EQ1-WATER for all analysis (equipment rinse for bucket) and pack with ice for delivery to lab; COC #33713 with trip blank TB1.

- Stop for lunch
- Resume setup for excavation/Level B operations
- Start excavation from southeast end of anomaly.

1500 - Leave site to delivery samples to lab in Albany

1540 - Samples dropped off with Dina (ALS) in Albany; mob back to office and pick up gatorade/ziploc bags.

1630 - End Day

A.N.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: AM: 65°F, partly cloudy PM: 90°F, partly cloudy.	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE: A. Norvelle	
SIGNATURE:	DATE: 5-26-16

0.25 in x 0.25 in

Form Number: 139_3

Rev. 01-18-13

Field Activity Daily Log

DATE	05	27	16
NO.			
SHEET	1	OF	1

Project Name: Drum Excavation MRFA Project No. 154035/155446 GE LF

Field Activity Subject: Drum excavation/sampling

Description of Daily Activities and Events:

0600 - Onsite with Hepaco, Weston, Joe Naselli (JN), & Brian Newmann (BN),

0630 - Tailgate/safety meeting; setup for excavation/sampling; go through JSA and breathing air checklist.
- Start excavations - continue from SE corner of anomaly.
- John Uruskyj with GE onsite

0840 - Potential ~~off~~ cylinder while digging - uncovered further confirms it is a drum.

0910 - Sample sludge from LF012 (CS-LF012) - not enough material for EPA split sample.

1010 - Take perimeter PID measurements due to odor from uncovered leaking drum - 0.0 to 0.1 ppm

1015 - Two liquid drums uncovered one leaking LF013 and LF014 (leaking).

1055 - Crew exits EZ, doff Level B/decon; prep for taking lunch

~~1130~~ 1115 AM - Stop for lunch

1215 - Setup for cleaning up soil from leaking drum; pack samples and fill out COC for CS-LF012.

1330 - Offsite to pick up liquid sample bottles in Albany; BN will transfer sample cooler to carrier at 1400.

1410 - Bottles not available yet; head back to office to print/finish paperwork

- End Day

S.A.N.

VISITORS ON SITE: John Uruskyj with GE	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —
WEATHER CONDITIONS: AM: 70°F, partly cloudy, PM: 90°F, partly cloudy	IMPORTANT TELEPHONE CALLS: —
CB&I PERSONNEL ON SITE: A. Norvelle	
SIGNATURE:	DATE: 5-27-16

0.25 in x 0.25 in

Form Number: 139_3
Rev. 01-18-13

5/27/16

06:00 on site.
06:15 tailgate H&S meeting
07:00 Hepaco gets ready to start excavating
07:15 Inspect breathing system. Perform checklist
07:30 start excavation
8:00 GE John on site
8:40 Discover drum (LF012) in excavation
8:50 Mike Relyea (LF) on site. Drum exposed, assessed. contents appear empty with some residual soil. Contents sampled
0920 Drum LF012 put into overpack and secured.
0930 Ground crew leaves EZ and decons SCBA bottles I & II are spent
10:15 Discover drum (LF-013) and drum (LF-014). Remove soil around drums LF013 is leaking green fluid. Mike Relyea leaves site
10:45 John (GE) leaves site. Perform assessment on drums LF012 & LF013 Place drums in overpacks. Plan on sampling liquid from drum LF013 on Tuesday
10:55 Ground crew leaves EZ and decons. Excavator removes impacted soil from leaking drum LF013
11:05 Exc operator leaves EZ and decons.
11:15-12:15 lunch
12:15 Change cascade air bottle on Excavator. Inspect bottle mount welds & bolts. Check hoses. Everything O.K. and secure
12:45 Excavator operator enters EZ to excavate impacted soil from leaking drum LF014. Approximately 1/2 cubic yard of soil generated and temporarily stockpiled on poly sheeting. Pile covered
1:15 Hepaco crew decon's and leaves EZ
Start cleaning up site
2:00 Site secure. Leave site

Field Activity Daily Log

DATE	05	31	16
NO.			
SHEET	1	OF	1

Project Name: MAFA Drum Excavation Project No. 154035/155446
Field Activity Subject: Drum Excavation and Sampling GE LF.
Description of Daily Activities and Events:

0700 - Onsite with Joe Nasella (JN), Weston, and Hepaco
0730 - Safety/tailgate meeting. Go through JSA for excavation/sampling; mob/setup down at excavation; ~~start excavating~~ A.N.
0820 - Take perimeter PID measurements (all 0.0ppm); start excavation activities
1050 - Drum/Container LF015 discovered; setup for Level B entry; high PID readings - soil under drum 38.4ppm, soil next to drum 28.2 ppm
1110 - Drum/container LF016 discovered; no PID hits; LF016 discovered directly south of LF015.
1155 - Plastic/Poly type material discovered while excavating; does not appear as bag/container but may be sheet/layer.
1230 - Lunch
1330 - Resume excavation activities, setup for collecting liquid sample from LF014 including normal sample, duplicate sample, and EPA split sample; Bonnie with EPA onsite.
1430 - Begin sampling LF014; courrier waiting outside gate; LF017 discovered.
1540 - Samples complete for CS-LF014, ~~C~~ A.N. DUP 1-WATER, and EPA split for CS-LF014; pack samples and prepare COC for shipment.
1625 - Hand over samples to courrier; courrier informs me that they will not ship today due to 3pm cutoff.
1630 - End Day A.N.

A.N. Samples made it out ontime per subsequent conversation with Dina at ALS

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
Bonnie Hriczko with EPA	—
WEATHER CONDITIONS: AM: 65°F, sunny, W wind PM: 85°F, sunny, WSW wind	IMPORTANT TELEPHONE CALLS: —
CB&I PERSONNEL ON SITE: A. Norvelle	
SIGNATURE:	DATE: 5-31-16

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Field Activity Daily Log

DATE	05	31	16
NO.			
SHEET		OF	

Project Name: Project No.

Field Activity Subject:

Description of Daily Activities and Events:

07:00 - onsite

07:00 - 08:30 Safety talk. Breathing air checklist & Cascade air bottle mount inspected. New Hepaco employee (Cameron Carter) onsite. Check Cameron's certs. Everything ok.

09:00 HEPACO starts excavation

10:35 Drum LF015 discovered. Ground crew suits up

10:50 Ground crew enters to perform assessment. Drum empty but soil has strong odor and PID readings of 38.4 ppm and 28.2ppm. LF015 overpacked

11:21 Another drum (LF016) is discovered. Impacted soil being placed on poly as new drum is exposed

11:40 Drum LF016 has initial assessment performed. Appears empty. Drum LF016 put into overpack for security until it is opened and sampled later today.

11:55 Poly bags encountered in excavation. Ground crew running out of air.

12:00 Ground crew decons and exits EZ. Will assess bags after lunch.

12:30 - 1:06 lunch

1:30 HEPACO supervisor Ed L. states that the poly bags are just buried poly sheeting Excavator operator going to excavate the poly and any impacted soil Ground crew getting ready to enter the EZ to sample drum LF014. Cascade bottle mount on excavator checked and cleared.

2:30 Discover drum LF-017 (empty drum carcass). Hepaco begins sampling liquid from LF014

3:40 Ground crew finish sampling liquid from drum LF014. Decon & leave area HEPACO starts cleaning up site.

4:00 David from security comes out to inspect fence closure. David oks the closure

4:25 site secure. Leave site

VISITORS ON SITE: Bonnie Hriczko on site @ 1:30	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: Sunny, warm wind to East blustery in the afternoon	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

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Form Number: 139_3

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Field Activity Daily Log

DATE	06	01	16
NO.			
SHEET	1	OF	1

Project Name: MRFA Drum Excavation Project No. 154035 / 155446 GE. LF.

Field Activity Subject: Drum Excavation and Sampling

Description of Daily Activities and Events:

0700 - Onsite with Joe Nasell: (JN), Weston, and Hepaco; waiting on all of Hepaco crew to show up.

0730 - Safety meeting / tailgate; go over gameplan for the day; mob to excavation and setup for excavation / sampling.

0830 - Bonnie (EPA) onsite; Hepaco starts to unpack drums for puncture (LF013, 15, and 16)

- Issues encountered with how spike is mounted (keeps rotating); continue excavation and wait to puncture drums once a better process is developed. A.N.
- ~~LF017 removed discovered~~

1330 - LF018 discovered

- Drum carcasses and 5-gal pail debris discovered in single general area and labeled collectively as LF019
- LF020 discovered; may contain enough solids for sample
- Strong odors come sporadically from excavation area; can not identify definite source; PID max = 2.2ppm in support zone
- Likely stainless steel drum discovered with Acetone hand-written on top lid.

1400 - Start sampling LF020

1440 - Sample collection complete for ~~EF~~ A.N. CS-LF020; only enough volume for one sludge set; pack samples and prepare COC.

1500 - Offsite to deliver sample to ALS in Albany

1530 - Drop off samples with Dina (ALS); collect 2 empty small coolers

1600 - End Day A.N.

VISITORS ON SITE: Bonnie Hriczko with EPA

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS: AM: 60°F, sunny, N wind PM: 85°F, sunny, WSW wind

IMPORTANT TELEPHONE CALLS: —

CB&I PERSONNEL ON SITE: A. Norvelle

SIGNATURE: [signature]

DATE: 6-1-16

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Form Number: 139_3
Rev. 01-18-13

Field Activity Daily Log

DATE	06	01	79
NO.			
SHEET		OF	

Project Name: Luther Forest Malta Project No.

Field Activity Subject:

Description of Daily Activities and Events:

07:00 Arrive on site.

07:30 HEPACO on site

07:30 - 08:30 Daily tool box safety talk. Perform breathing air checklist & cascade bottle mount inspection.

08:30 HEPACO gets ready to enter EZ

09:00 - 10:00 HEPAC mounts brass drum punch to excavator bucket and plans to punch holes in drums LF012, LF013, LF015 & LF016. Mount doesn't hold. HEPACO is going to come up with a different plan and switch tasks to digging.

10:00 HEPACO begins excavation.

10:20 LF018 discovered and removed. This is a crushed drum carcass.

Air test

	O_2	H_2S	CO_2	LEL
11:00 W92172 - cascade bottle	20.9	0	0	0

check air bottle paperwork and bottle mounts on excavator

11:30 - 12:30 lunch

1:00 HEPACO provides paperwork from B-LAND for new air bottles

1:30 Ground crew enters to assess LF018, LF019 & LF020

2:00 Discover drum LF021. Very strong mercaptin type odor. clear area. Ground crew sent in w/ Level B. Drum is empty. LF021 is a stainless steel drum labeled "Acetone From Primevent" see photo. Crew also sampling contents of drum LF020

2:30 HEPACO stops digging for the day.

VISITORS ON SITE: Bonnie H. (EPA) 08:30 -
Andy Frank (NYSDEC) 10:30 - 11:30

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

CB&I PERSONNEL ON SITE:

SIGNATURE:

DATE:

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Field Activity Daily Log

DATE	06	02	16
NO.			
SHEET	1	OF	2

Project Name: MRFA Drum Excavation
Project No. 154035 / 155446 GE LF
Field Activity Subject: Drum Excavation and Sampling
Description of Daily Activities and Events:

0700 - Onsite with Weston and Hepaco; Joe Naselli (JN) offsite until afternoon; tailgate/safety meeting; discuss Stainless/Acetone labled drum found yesterday; need to get larger overpack (like a plastic 95 gal) for the stainless drum LF021.

0830 - Run through breathing air checklist, all clear; resume excavation; stockpile/consolidate carcasses and pails for LF019 area; prepare to sample LF022

0900 - LF023 discovered, liquid likely in drum; bung cracked on LF021 results in a hiss and spike in LEL to 100% - shut down equipment and all personel exit EZ and CRZ to support zone. Wait for LF021 to bleed off pressure and for LEL to dissipate.

0950 - Talked with JN and Greg McElroy (GM) about LF021 - Hepaco needs to figure out brass punch mount so that drum can be opened with excavator only

1020 - Brass punch remounted and team reenters to position LF021 for puncture. Hepaco notices side bung that was cracked is now popped off entirely. Vapor observed exiting bung; punch no longer necessary for LF021; leave LF021 to continue offgassing; start sampling of solids from LF022 @1030

1050 - LF022 sample collection complete @ 1100 (CS-LF022 and DUP1-SOIL); solids appear to be mostly soil - likely infiltrated sand.

1130 - Lunch

1230 - Resume excavation; JN onsite, go through tailgate/safety meeting and bring up to speed.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS: AM: 65°F, partly cloudy, W wind
PM: 85°F, partly cloudy, W wind

IMPORTANT TELEPHONE CALLS:

CB&I PERSONNEL ON SITE: A. Norvelle

SIGNATURE:

DATE: 6-2-16

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Field Activity Daily Log

DATE	06	02	16
NO.			
SHEET	2	OF	2

Project Name: MRFA Drum Excavation Project No. 154035/155446 GE LF

Field Activity Subject: Drum Excavation and Sampling

Description of Daily Activities and Events:

1320 - More plastic sheeting and boom discovered
1330 - Crew preps for liquid sample collection from LF023 and to test if liquid is present in LF021.
1350 - Liquid is present in LF021 (3-4 inches); start sampling LF023 (GS-LF023@1350).
1430 - Sample collection complete; pack samples and prepare COC; mob to ALS
1610 - Drop samples off at ALS Albany office, pick up additional coolers and sample bottles.
1630 - End Day

A.N.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS: See pg. 1

IMPORTANT TELEPHONE CALLS:

CB&I PERSONNEL ON SITE: A. Norvelle

SIGNATURE:

DATE: 6-2-16

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Field Activity Daily Log

DATE	6	2	16
NO.			
SHEET		OF	

Project Name: Project No.

Field Activity Subject:

Description of Daily Activities and Events:

12:00 Arrive on site. HEPACO returning from lunch

12:30 Inspect cascade bottle mounts on excavator. Crew enters E2. Drum LF021 which was assessed earlier in am is left under tent in the shade. Ground crew assessing condition and contents.

2:00 [redacted] HEPACO starts exiting the work area. Ground crew samples contets of drum LF023

2:30 HEPACO dcons and exits E2 with sample. Begin clean up of site. Fence secure, call security.

3:00 Security patrol inspects fence closure. All good.

3:30 leave site.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

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Form Number: 139_3

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Field Activity Daily Log

DATE	06	03	16
NO.			
SHEET		OF	1

Project Name: MRFA Drum Excavation
Project No. 154035/155446 GE LF
Field Activity Subject: Drum excavation and sampling
Description of Daily Activities and Events:

0700 - onsite with Joe Naselli (GN), Hepaco, and weston; wait for rest of Hepaco crew to arrive
0730 - Safety/tailgate meeting; setup for excavation activities.
0850 - Resume excavation.
0900 - Drum LF024 discovered; prep for sampling liquid from LF021 (likely Acetone).
1025 - Sample collected from ~~CS-LF02~~ A.N. LF021 (CS-LF021); written warning given on each sample bottle and on COC with attached drum info sheet; prep for sampling LF024 (liquids).
1110 - Sample collected from LF024 (CS-LF024); written warning given as with LF021 due to similar appearance/characteristics (i.e. solvent/Acetone).
~~1200~~ 1130 - Lunch break; start packing samples and preparing COC with drum contents warning sheets.
~~1300~~ 1230 - Resume excavation; drums LF025 and LF026 discovered; prep for sampling liquid from LF026.
1400 - Sample collected from LF026 (CS-LF026); liquid appears similar to LF014 (green/oily); only enough volume was recovered for 2 VOAs and 1 1-liter Amber bottle - analysis order preferance noted on COC; pack samples and prepare COC
1515 - Drop off samples with courier.
1530 - End Day

A.N.

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: —

WEATHER CONDITIONS: AM: 65°F, partly cloudy, W wind
PM: 85°F, partly cloudy, W wind.

IMPORTANT TELEPHONE CALLS: —

CB&I PERSONNEL ON SITE: A. Norvelle

SIGNATURE:

DATE: 6-3-16

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Field Activity Daily Log

DATE	6	3	16
NO.			
SHEET		OF	

Project Name: | Project No.

Field Activity Subject:

Description of Daily Activities and Events:

0700 on site

0730 - 0830 Tailgate H2S talk, perform breathing air checklist. Inspect cascade bottle mount on excavator. HEPACO installs cascade tank CW94068 that was filled on 6/1/16. Check bottle paperwork. Everything ok. Test air at mask - O_2 = 20.9, H_2S = 0ppm, CO_2 = 0ppm, LEL = 0ppm

0900 HEPACO mounts brass punch to excavator bucket. EO enters EZ with excavator and punches holes in drums LF015, LF016.

0930 Ground crew enters EZ to verify contents of punctured drums and to sample contents of LF021. Drum LF024 discovered and pulled out of ground.

1030 Ground crew assesses and samples LF024

1130 HEPACO decons + exits EZ.

1130 - 1230 lunch

1300 Crew enters EZ. Discover drum LF025 (half drum). Drum is empty with a little dirt inside. Dirt placed in soil stockpile and drum placed in empty drum pile.

1330 Drum LF026 discovered. HEPACO assesses drum and finds it has a greasy oily liquid inside.

2000 HEPACO collects sample of LF026 liquid. Only enough to fill 1 Amber + VOA

2120 HEPACO crew decons + exits EZ

2130 HEPACO starts to clean up site.

2145 Call security to have them inspect fence.

3000 Security arrives and checks perimeter fence. All ok.

3130 leave site.

VISITORS ON SITE: Mike Relyea 0930 - 0940

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS: Andy Frank DEC @ 1330 - Gave Andy an update on drum findings. Andy to visit on 6/6/16.

CB&I PERSONNEL ON SITE:

SIGNATURE:

DATE:

Field Activity Daily Log

DATE	06	06	16
NO.			
SHEET	1	OF	1

Project Name: MRFA Drum Excavation Project No. 154035/155446 GE LF

Field Activity Subject: Drum excavation and sampling

Description of Daily Activities and Events:

0700 - Pick up additional sample jars/coolers from ALS in Albany; mob to site

0800 - Onsite. Joe Naselli (JN), Weston, Hepaco also onsite but waiting for all of Hepaco crew - called out for spill last night so may be late.

0900 - All Hepaco crew onsite; Tailgate/safety meeting; prep for resuming excavation.

0930 -

1030 - Drums LF027 through LF036 discovered and removed from excavation.

1200 - Lunch break.

1300 - Resume excavation; prep for sampling liquid from LF036

1320 - Drums LF037 to LF039 discovered and removed from excavation; start sampling LF036

1445 - Sample collection complete from LF036 (CS-LF036@1350); pack samples and prepare COC; included warning on bottles and COC and attach drum sheet for LF036 due to liquid characteristics similar to LF021 (i.e. solvent/acetone).

1515 - Drop off samples with courier.

1530 - End Day

A.N.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: AM: 65°F, cloudy, WSW wind PM: 80°F, cloudy, WSW wind	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE: A. Norvelle	
SIGNATURE:	DATE: 6-6-16

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Form Number: 139_3
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Field Activity Daily Log

DATE	6	6	16
NO.			
SHEET		OF	

Project Name: Luther Forest MRFA site Malta, NY Project No.

Field Activity Subject:

Description of Daily Activities and Events:

07:00 CB&I + Vertex on site - Jared + Max from HEPACO on site

07:30 Max (Hepaco) informs me that they had a spill @ CSX selkirk early this morning and the rest of crew will be onsite around 8:30 am.

09:30 HEPACO crew arrives on site. Go over tailgate H&S and breathing air checklist. We remind HEPACO of dangers of working tired and reinforces the buddy system and right to stop work. in our safety talk.

10:30 HEPACO begins work inside EZ.

10:45 Four (4) drums encountered (LF027, LF028, LF029 + LF030) All apear empty with holes & corrosion. HEPACO performs assessment

11:00 HEPACO reports that all 4 drums are empty. They crush with excavator bucket and place them in scrap pile.

11:30 Encounter five (5) more drums (LF031, LF032, LF033, LF034 + LF035) Hepaco performs assessment of drums

11:45 Encounter drum LF036. Contains solvat like liquid (leaking) no bung plug in side.

12:00 - 1:00 lunch

1:30 Crew assesses and samples drum LF036

2:00 Encounter three more drums (LF037, LF038 + LF039). Each one contains liquid. Hepaco perform assessment on there three drums

2:30 Crew finishes sampling LF036

3:00 Crew exits EZ and decons. Security called to check site

3:15 Security arrives and checks permeter fence. All ok.

3:30 leave site.

VISITORS ON SITE: Andy Frank 1:30 - 2:30 pm	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

Field Activity Daily Log

DATE	06	07	16
NO.			
SHEET	1	OF	2

Project Name: MRFA Drum Excavation
Project No. 154035/155446 GE LF
Field Activity Subject: Drum excavation and sampling
Description of Daily Activities and Events:

0700 - onsite with Joe Nasell (JN), Hepaco, and weston.
0730 - tailgate/safety meeting, setup for work, mob down to excavation
0830 - Breathing air checklist, start entry to finish inspecting drums discovered yesterday; Brian Neumann (BN) onsite; JN offsite for other work.
0900 - LF037, 38, and 39 have sufficient liquid for sampling
0910 - LF042 pulled and is leaking; team goes in to immediately overpack; strong odor downwind.
1000 - Discovered what looks like small gas cylinders with attached valve and part of line it may have been attached to; pictures taken and personell exit excavation to assess; Hepaco goes to Ace Hardware for buckets (5-gal) to contain the "cylinders".
1030 - Hepaco reenters to sample LF037 (with split for EPA), LF038, and LF039.
1040 - Hepaco back onsite with 5-gal buckets; continue unearthing cylinders; more than 15 discovered so far, several sizes but otherwise they look the same; some are clearly drilled all the way through (i.e. empty); 1-gal buckets with some weight to them discovered (x2).
1100 - Start sampling CS-LF037, 38, and 39. (CS-LF037@1100) and EPA split
1200 - Sample complete for LF037, may not be enough volume for LF038 and haven't started LF039. Break for lunch. BN offsite.
1300 - Hepaco and JN back onsite; resume sampling LF038 and LF039 and start containerizing cylinders (empty/drilled bulked as LF04 and undrilled/unknown contents as LF04).
1430 - Sampling complete for LF037 (CS-LF037@1100), LF038 (CS-LF038@1330),

VISITORS ON SITE: —

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: Cylinders discovered

WEATHER CONDITIONS: AM: 60°F, cloudy, SW wind PM: 75°F, cloudy, WSW wind

IMPORTANT TELEPHONE CALLS: —

CB&I PERSONNEL ON SITE: A. Norvelle

SIGNATURE:

DATE: 6-7-16

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Field Activity Daily Log

DATE	06	07	16
NO.			
SHEET	2 OF	2	

Project Name: MRFA Drum Excavation
Project No. 154035/155446 GE LF
Field Activity Subject: Drum excavation and sampling
Description of Daily Activities and Events:

1430 continued... - LF039 (CS-LF039@1355), and LF042 (CS-LF042@1430). Mike with Weston collected split sample from LF037 for EPA. Only enough volume for VOCs (3x40mL VOA) from LF039. Pack up samples for courrier pick up and put warning for all for high volatility/likely acetone or solvent.

1520 - Samples dropped off with courier. Call Dina to let know what samples are coming and order four more liquid sets. Pack up/Clean up

1530 - Offsite

A.N.

VISITORS ON SITE: see pg. 1

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: Cylinders discovered

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

CB&I PERSONNEL ON SITE: A. Norvelle

SIGNATURE:

DATE: 6-7-16

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Field Activity Daily Log

DATE	6	7	16
NO.			
SHEET		OF	

Project Name: Luther Forest MRFA Malta NY Project No.

Field Activity Subject:

Description of Daily Activities and Events:

0700 Arrive on site
0730 Tailgate HASP
0800 Brian Neuman on site. HEPACO prepares to start
0830 I leave site to go to another project bid walk. Brian Neuman is acting supervisor
1300 I arrive back on site, Brian Neumann leaves site. Crew discovered approximately 30 small stainless steel cylinders while I was away. HEPACO is currently packing the cylinders into 5-gallon DOT approved buckets. 20 cylinders that have holes piercing through are ID'd as LF046. 14 cylinder that are intact and sealed are given the ID of LF047. HEPACO also discovered TWO 8 1-gallon pails with a gray chalky solid inside and drums LF037, LF038, LF039, LF040, LF041, LF042, LF043, LF044, LF045, LF048 and LF049.
1330 HEPACO samples LF038 & LF039
1430 HEPACO begins exiting the work area & decon'ing due to approaching thunder storm
1500 Security checks fence. All ok.
1530 leave site.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

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Field Activity Daily Log

DATE	06	08	16
NO.			
SHEET	1	OF	1

Project Name: MRFA Drum Excavation
Project No. 154035/155446 GE LF
Field Activity Subject: Drum excavation and sampling
Description of Daily Activities and Events:

0700 - Pick up additional liquid sample containers from ALS in Albany and mob to site.
0725 - Onsite with Joe Naselli (JN), Weston, and Hepaco. Safety stand down until after 8 am meeting concerning cylinders found yesterday
0945 - Decision made to continue with caution and to stop work if needed pending additional discovery of cylinders. Tailgate/safety meeting; reinforce authority to stop work for any safety concern.
1015 - Setup and resume excavations. Prep sample bottles for LF044 (liquid).
1215 - Sample collection of LF044 complete (CS-LF044@1150); break for lunch.
1315 - Excavation limits have been reached, start regrading/backfilling and cleanup operations; pack sample for courier drop-off.
1500 - Drop off sample with courier and inform Dina of one more "acetone" sample.
1515 - End Day

A.N.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS: AM: Cloudy, SW wind @~10 mph, 55 °F
PM: Cloudy, SW wind @~10 mph, 65 °F

IMPORTANT TELEPHONE CALLS:

CB&I PERSONNEL ON SITE: A. Norrelle

SIGNATURE:

DATE: 6-8-15

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Field Activity Daily Log

DATE	6	8	16
NO.			
SHEET		OF	

Project Name: Project No.

Field Activity Subject:

Description of Daily Activities and Events:

0700 - Arrive on site
0715 - on safety stand down due to cylinders. Discuss details of HEPACO's findings with HEPACO. Discuss potential hazards and plan moving forward.
0800 - Brian Newman to have meeting with clients.
0900 - Brian Newman calls to tell me that we can move forward with excavation. He says to leave the cylinders already discovered, alone until further notice. Speak to Greg McElroy. Greg is ok with work continuing as long as HEPACO is comfortable and the work plan is followed.
0930 - Discuss plan forward with HEPACO. ~~They~~ Ed & Max both say they are comfortable and prepared to continue. Ground crew will not handle any cylinders going forward. HEPACO to communicate their findings in real time.
10:00 - HEPACO prepares to ~~ete~~ enter EZ and continue digging. Discover drums LF050, LF051, LF052.
12:30-1:30 lunch
1:30 HEPACO enters work area and continues excavation. Discover drums LF053, LF054 & LF055.
2:30 HEPACO decons and exits EZ.
3:00 HEPACO starts cleaning up site. Fence secure
3:15 Security checks fence. All ok.
3:30 leave site.

VISITORS ON SITE: Bonnie H. (EPA) 09:00 - 15:00	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

0.25 in x 0.25 in

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Field Activity Daily Log

DATE	06	09	16
NO.			
SHEET	1	OF	1

Project Name: MRFA Drum Excavation
Project No. 154035/155446 GE LF
Field Activity Subject: Drum Excavation and Sampling
Description of Daily Activities and Events:

0700 - Onsite with Weston and Hepaco, wait for rest of Hepaco crew to show up
0730 - All Hepaco crew onsite, start tailgate/safety meeting; setup for drum sampling and project cleanup operations.
0800 - Joe Nasell: (JN) onsite; prep sample containers for LF048 and LF049 (paint cans/1-gal cans)
0850 - Sample collected from LF048 and LF049 as a composite due to similar appearance of contents, containers, and location. EPA also collects split sample. Sample label is CS-LF048-LF049.
1040 - Collect soil sample from impacted soil stockpile during placement into drums with the excavator. The sample is labeled SS-LF001-COMPOSITE and is a four point composite from the most impacted areas visible in the stockpile. Impacted soil drums are labeled SS-LF001-1 through SS-LF001-6; pack up samples and prepare COC.
1130 - Lunch break
1230 - Resume grading/cleanup operations
1310 - Mob to ALS in Albany with samples
1340 - Drop off samples with Dina at ALS, finish paperwork and unload equipment
1400 - End Day

A.N.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: AM: 55°F, cloudy, W wind PM: 65°F, cloudy, W wind	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE: A. Norvelle	
SIGNATURE:	DATE: 6-9-16

0.25 in x 0.25 in

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Field Activity Daily Log

DATE	6	9	16
NO.			
SHEET		OF	

Project Name: Luther Forest - Former MRFA site Malta, NY Project No.

Field Activity Subject:

Description of Daily Activities and Events:

0700 ON SITE
0730 - 0800 Tailgate safety. Perform breathing air checklist
0830 Ground crew enters EZ to sample LF048 & LF049. These containers will be composited
0900 - 11:30 HEPACO grading disturbed areas
11:30 - 12:30 Lunch
12:30 Rich Belokopitsky stops over to discuss perimeter fence patch. He is ok with HEPACO's plan and asks that security be called after fence work is complete to inspect.
1:00 Impacted soil is containerized into six 55-gallon drums SS-LF001, SSLF002, SS-LF003, SS-LF004, SS-LF005, & SS-LF006.
1:30 Excavator decontaminated and removed from work area.
2:00 Decon disassembled - decon water containerized into 55-gallon drum. Decon materials (poly & boom) containerized into 55-gallon drum. PPE containerized into 55-gallon drum.
2:30 Security checks fence. All ok.
3:00 Leave site.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

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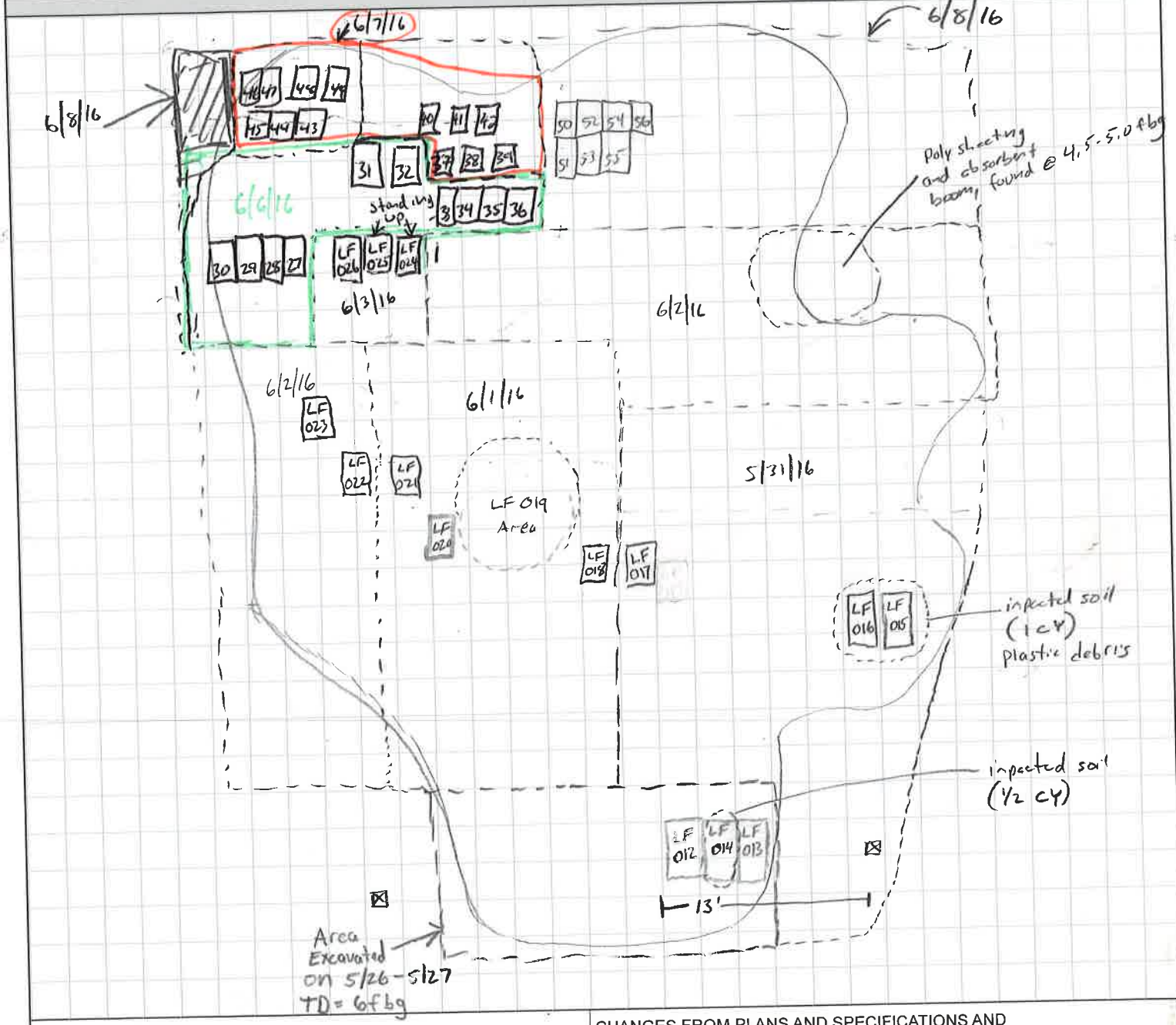
Field Activity Daily Log

DATE			
NO.			
SHEET	OF		

Project Name:	Project No.
Field Activity Subject:	
Description of Daily Activities and Events:	



VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

Field Activity Daily Log

DATE			
NO.			
SHEET	1	OF	

Container Log

Project Name: Luther Forest - Former MRFA site Malta, NY Project No.

Field Activity Subject:

Description of Daily Activities and Events:

Container ID #	Date Discovered	Time Disc	Overpack Type	Container Type	Depth (fbg)	Contents / Comments
LF 012	5/27/16	0840	Y	55-gallon steel closed top drum 2 ring	2.5	1/2" size hole observed. Empty. (#13 written on top)
LF 014	5/27/16	10:15	Y	55-gallon steel closed top drum 2 ring	2.0	Filled with green liquid leaking (PID = 950 ppm) during sampling on 5/31 Generated 1/2 CY of impacted soil
LF 013	5/27/16	10:15		55-gallon steel closed-top drum 2 ring	2.0	Empty top & bottom bulged
LF 015	5/31/16	10:35		55-Gal steel closed-top drum 2 ring	2.0	Empty - strong odor in soil beneath. PID 38.4 ppm directly below drum. Generated 1 CY of impacted soil
LF 016	5/31/16	11:21		55-gal steel closed top drum 2 ring	2.0	Empty - bulging at ends no odor or PID readings
LF 017	5/31/16	2:30		Crushed 55-gal steel drum carcass	2.0	Empty crushed carcass
LF 018	6/1/16	10:20		Crushed 55-gal steel drum carcass	2.0	Empty crushed
LF 019	6/1/16	10:45		6 steel drum carcasses 2 - 5-gallon pails	2.5	An area containing 6 drum carcasses and 2 pails. All empty
LF 020	6/1/16	10:55	Y	55-gallon steel closed top drum	2.5	Small amount of sludge

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

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Field Activity Daily Log

DATE			
NO.			
SHEET 2 OF			

Container Log page 2

Project Name: Project No.

Field Activity Subject:

Description of Daily Activities and Events:

Container ID #	Date Discovered	Time Discovered	container Type	Depth (fbg) (top of drum)	contents / comments
LF021	6/1/16	2:00 2:00	55-gallon SS drum	2.5	[redacted] - "1954 • 1957" written last used labeled Acetone strong Mercaptin type odor
LF022	6/1/16	2:15 2:15	55-gallon steel closed top 2 ring	2.5	puncture on side near top ring 1/4 filled w/ soil PID = 15 ppm
LF023	6/2/16	09:00 [redacted]	55-gallon steel closed top 2 ring	2.5	Sludge Oily w/ sand
LF024	6/3/16	0940	55-gallon steel closed top 2 ring	2.5	1/2 Full with liquid top & bottom bulged 2" hole in top. (solvent) upright
LF025	6/3/16	1:00	55-gallon steel 1/2 drum	2.0	Empty with a small amount of soil from excavation. (upright)
LF026	6/3/16	1:40	55-gal steel closed top 2 ring	2.5	Oily greenish liquid
LF027	6/6/16	10:45	55-gal steel closed top (2-ring)	3.0	Empty - corroded with holes
LF028	6/6/16	10:45	↓	↓	↓
LF 029	6/6/16	10:45	↓	↓	↓
LF030	6/6/16	10:47	↓	↓	↓

85 gall. Steel

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

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Field Activity Daily Log

DATE			
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SHEET 3	OF		

Container Log page 3

Project Name: Project No.

Field Activity Subject:

Description of Daily Activities and Events:

Container ID #	Date Discovered	Time Discovered	Container Type	Depth (flg) top of Drum	contents / comments
LF031	6/6/16	11:30	55-gallon closed top steel 2-ring	3.0	Empty corroded w/Holes
LF032	6/6/16	11:30		3.0	
LF033	6/6/16	11:30	55 gallon stainless steel closed top	3.0	SS
LF034	6/6/16	11:30	55-gal steel closed top 2-ring	3.0	
LF035	6/6/16	11:30		3.0	
LF036	6/6/16	11:45	55-gallon closed top steel	3.0	Solvent like odor brown color 1/4 filled bung hole missing.
LF037	6/7/16	08:30	55-gallon closed top steel	3.0	Liquid
LF038	6/7/16	08:30	55-gallon closed top steel	3.0	Empty
LF039	6/7/16	08:30	55-gallon closed top steel	3.0	Liquid
LF040	6/7/16	09:00		3.0	Empty
LF041	6/7/16	09:00		3.0	Empty
LF042	6/7/16	09:00		3.0	Empty

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

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Field Activity Daily Log

DATE			
NO.			
SHEET 4	OF		

Project Name: Project No.

Field Activity Subject:

Description of Daily Activities and Events:

Container ID #	Date Discovered	Time Discovered	Container Type	Depth (fbg)	Contents / comments
LF043	6/7/16	09:30	55-gal closed top 2-ring	2.0	Empty
LF044	6/7/16	09:30	↓	2.0	Empty
LF045	6/7/16	10:00	55-gallon closed top 2-ring	2.0	crumbled, corroded
LF046	6/7/16	10:00	SS cylinders	0.5-1.0	20+/- SS cylinders various sizes w/ holes through "US NAVY" 5-gallon bucket
LF047	6/7/16	10:00	SS cylinders	0.5-1.0	3- 5gallon buckets 14 SS cylinders various sizes intact - no holes "US NAVY"
LF048	6/7/16	11:00	10-gallon pail	1.0	grayish chalky solid 5-gallon
LF049	6/7/16	11:00	10-gallon pail	1.0	↓
Combine LF048-LF049 EF050	6/8/16	10:00	55-gallon steel closed top 2-ring		rotten w/ Ldy
51	↓	10:00	↓		↓
52		10:15			rotten corrosion
53		10:30			↓
54		11:15			rotten damaged Ldy
55		11:15			↓
56		11:15			

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

0.25 in x 0.25 in

1 PPE
1 Decon
1 water

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Field Activity Daily Log

DATE			
NO.			
SHEET		OF	

Project Name: Project No.

Field Activity Subject:

Description of Daily Activities and Events:

ID #	Sampled	Overpacked	Scrap pile	Empty	ID #	Sampled	Overpacked	Scrap Pile	Empty
LF012	X	X			LF037	X	X		
13		~~X~~ 2	X	X	38	X	X		
14	X	X			39	X	X		
15			X	X	40			X	X
16			X	X	41			X	X
17			X	X	42	X	X		
18			X	X	43			X	X
19			X	X	44	X	X		
20	X	X			45			X	X
21	X	X			46		X 5-gal		
22	X	X			47		X 5-gal		
23	X	X			48	X	X 5-gal → moved to 55 gal		
24	X	X			49	X	X 5-gal		
25			X	X	50	composite		X	X
26	X	X			51			X	X
27			X	X	52			X	X
28			X	X	53			X	X
29			X	X	54			X	X
30			X	X	55			X	X
31			X	X	56			X	X
32			X	X					
33			X	X					
34			X	X					
35			X	X					
36	X	X							

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

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Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	5-27-16
Container ID #	~~LF01~~ LF012
Original Container Location	
Original Container Type	55gal close top Drum
Original Container Size	55gal
Original Container Condition	1pin whole, rusted
Original Container Labels / Markings	has the #13 on the top in red
Outer / Overpack Container Type	
Spill or Leak? (Y/N)	N
Vapor? (Y/N)	N
PID Reading (ppm)	no readings
LEL Reading (%)	
Oxygen Reading (%)	
Physcial State (Liquid / Solid / Sludge / Powder)	Sludge
Color	Brown
Notes	Residual volume
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time/Date	~~LF012 - 9:26~~ A.N. CS-LF012/~~0940~~ 0950 A.N./5-27-16
Soil Under Contaner Sample ID # / Time	———
Terrain	
Weather Conditions	Clear / hot
Photograph(s)? (Y/N)	Y (#7 on 5-27-16) A.N.

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	5-27-16
Container ID #	LF013
Original Container Location	
Original Container Type	55 gal Close top Drum
Original Container Size	55 gal
Original Container Condition	Rusty on top + bottom
Original Container Labels / Markings	NO
Outer / Overpack Container Type	placed in over pack
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	
PID Reading (ppm)	
LEL Reading (%)	
Oxygen Reading (%)	
Physcial State (Liquid / Solid / Sludge / Powder)	
Color	
Notes	
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	Y (7 on 5-27-16)

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	5-27-16
Container ID #	LF014
Original Container Location	
Original Container Type	55 gal close top drum
Original Container Size	55 gal
Original Container Condition	Rusty on top + bottom
Original Container Labels / Markings	No
Outer / Overpack Container Type	placed both
Spill or Leak? (Y/N)	Yes
Vapor? (Y/N)	N
PID Reading (ppm)	950 (headspace)
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Liquid, oily
Color	Green
Notes	
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time/Date	CS-LF014/1430/5-31-16, DUP1-WATER/1430/5-31-16
Soil Under Contaner Sample ID # / Time	———
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	Y (3 on 5-27-16)

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	5-31-16
Container ID #	LF015
Original Container Location	
Original Container Type	55 Gal double ringed
Original Container Size	55 Gallon
Original Container Condition	Dented but not visably punctered
Original Container Labels / Markings	No markings
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	51.1
LEL Reading (%)	0.0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Empty
Color	—
Notes	—
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	Sunny, 72°F, WSW wind at 6mph
Photograph(s)? (Y/N)	Y (17 on 5-31-16

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	5-31-16
Container ID #	LF016
Original Container Location	
Original Container Type	55 Gal double ring liquid
Original Container Size	55 Gallons, 1x side bung, 1x small top bung
Original Container Condition	Bulging, no visable holes or punctures
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	0.0
LEL Reading (%)	0.0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Empty
Color	N/A
Notes	—
Sampler Name	
Inside Container Sample ID # / Time	
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	Y (8 on 5-31-16)

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-1-2016
Container ID #	LF017
Original Container Location	
Original Container Type	55-gal steel drum carcass
Original Container Size	55-gal
Original Container Condition	Empty crushed carcass
Original Container Labels / Markings	None
Outer / Overpack Container Type	
Spill or Leak? (Y/N)	N
Vapor? (Y/N)	N
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	
Color	
Notes	Empty
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	N

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-1-2016
Container ID #	LF018
Original Container Location	
Original Container Type	55 Gal Steel drumm Carcass
Original Container Size	55 Gallon
Original Container Condition	Empty crushed carcass
Original Container Labels / Markings	None
Outer / Overpack Container Type	No
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	—
Color	—
Notes	Empty
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	N

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-1-2016
Container ID #	LF019
Original Container Location	
Original Container Type	2x5 Gal Pal Carcass's, 6x55gal carcasses
Original Container Size	5 Gallon / 55 gal
Original Container Condition	Empty Carcass's
Original Container Labels / Markings	NO
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	—
Color	—
Notes	Empty
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	Y (2 on 6-1-16)

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-1-2016
Container ID #	LF020
Original Container Location	
Original Container Type	55 Gallon double ringed
Original Container Size	55 Gallon
Original Container Condition	Collapsed
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	None
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	~~N/A~~ Sludge
Color	
Notes	Residual volume
Sampler Name	Leisenfelder, A. Norvelle
Inside Container Sample ID # / Time	CS-LF020 / 6-1-16 @1400
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	Y (3 on 6-1-16)

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-2-16
Container ID #	LF021
Original Container Location	
Original Container Type	55 Gallon Stainless Steel
Original Container Size	55 Gallon
Original Container Condition	Dented but still intact
Original Container Labels / Markings	ACETONE
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	Yes
PID Reading (ppm)	+
LEL Reading (%)	100
Oxygen Reading (%)	—
Physcial State (Liquid / Solid / Sludge / Powder)	Liquid / Vapor
Color	brown in sample jar
Notes	Highly volatile; drum initially under pressure – hiss when bung cracked open.
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF021 / ~~6-4-16~~ 6-3-16 (est.) @ 1025
Soil Under Contaner Sample ID # / Time	— ← sent to lab incorrectly as 6-4-16
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	Y (4 on 6-1-16, 2 on 6-2-16)

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-2-16
Container ID #	LF022
Original Container Location	
Original Container Type	55 Gal double ring
Original Container Size	55 gallon
Original Container Condition	Large puncture under top ring
Original Container Labels / Markings	Yes unreadable (one "L" and one "A" apart)
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	15
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Solid, Dirt
Color	Brown
Notes	Likely only intended soil, however strong oder when drum was removed
Sampler Name	A. Norrelle
Inside Container Sample ID # / Time	CS-LF022 and DUP1-SOIL / 6-2-16 @ 1030
Soil Under Contaner Sample ID # / Time	———
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	Y (3 on 6-2-16)

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-2-16
Container ID #	LF023
Original Container Location	
Original Container Type	55 gallon double ring
Original Container Size	55 gallon
Original Container Condition	Medium Size hole near Top
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	yes
Vapor? (Y/N)	NO
PID Reading (ppm)	20
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Liquid, oily
Color	N/A, green from sample jars
Notes	
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF023 / 6-2-16 @ 1350
Soil Under Contaner Sample ID # / Time	———
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	Y (3 on 6-2-16)

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	~~6-4-16~~ A.N. 6-3-16
Container ID #	LF024
Original Container Location	
Original Container Type	55 gallon double barrell steel
Original Container Size	55 gallon
Original Container Condition	Large hole under lid/Large hole in lid
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	5
LEL Reading (%)	Ø
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	liquid
Color	N/A (brown in sample jar)
Notes	Likely same liquid as found in LF021 (i.e. Acetone) but no label; highly volatile
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF024 / ~~6-4-16~~ A.N. 6-3-16 @ 1110
Soil Under Contaner Sample ID # / Time	———
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	Y (6 on 6-3-16)

Approach readings only – no headspace reading so meter will not peg and need recall

+ pid reading from sample jar headspace

↖ sent to lab incorrectly as 6-4-16

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-3-16
Container ID #	LF025
Original Container Location	
Original Container Type	55 gallon double rims
Original Container Size	55 gallon
Original Container Condition	In two pieces
Original Container Labels / Markings	NO
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	—
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	Y (3 on 6-3-16)

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-3-16
Container ID #	LF026
Original Container Location	
Original Container Type	55 gallon double ring
Original Container Size	55 gallon
Original Container Condition	Intack
Original Container Labels / Markings	NO
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Liquid, oily
Color	N/A, green from sample jars
Notes	
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF026 / 6-3-16 @ 1400 ← only enough volume for 2 x 40mL VOAs and 1 x 1L Amber
Soil Under Contaner Sample ID # / Time	——— ← sent incorrectly to lab as 6-4-16
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	Y (3 on 6-3-16)

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-6-16
Container ID #	LF027
Original Container Location	
Original Container Type	Closed Top 55gal Steel
Original Container Size	55gal
Original Container Condition	Bent Side bung missing
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N/A
Vapor? (Y/N)	N/A
PID Reading (ppm)	6
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	Rusted
Notes	
Sampler Name	
Inside Container Sample ID # / Time	
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-6-16
Container ID #	LF028
Original Container Location	Closed Top 55gal Steel
Original Container Type	↓ ↓
Original Container Size	55 gal
Original Container Condition	Hole in the side
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N/A
Vapor? (Y/N)	N/A
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	
Sampler Name	
Inside Container Sample ID # / Time	
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-6-16
Container ID #	LF029
Original Container Location	
Original Container Type	Closed Top 55 gal Steel
Original Container Size	55 gal
Original Container Condition	Corroded
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N/A
Vapor? (Y/N)	N/A
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	
Sampler Name	
Inside Container Sample ID # / Time	
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-6-16
Container ID #	LF030
Original Container Location	
Original Container Type	Closed Top 55gal Steel
Original Container Size	55 gal
Original Container Condition	Damage and Bent
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N/A
Vapor? (Y/N)	N/A
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	
Sampler Name	
Inside Container Sample ID # / Time	
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-6-16
Container ID #	LF031
Original Container Location	
Original Container Type	Closed Top 55gal Steel
Original Container Size	55 gal
Original Container Condition	Bent on the side and corroded
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N/A
Vapor? (Y/N)	N/A
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	
Sampler Name	
Inside Container Sample ID # / Time	
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-6-16
Container ID #	LF032
Original Container Location	
Original Container Type	Closed Top 55 gal Steel
Original Container Size	55 gal
Original Container Condition	Hole on Top and corroded
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N/A
Vapor? (Y/N)	N/A
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	
Sampler Name	
Inside Container Sample ID # / Time	
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-6-16
Container ID #	LF033
Original Container Location	
Original Container Type	55 gal Stainless Steel
Original Container Size	55gal
Original Container Condition	Punctured
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N
Vapor? (Y/N)	N
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-6-16
Container ID #	LF034
Original Container Location	
Original Container Type	Closed Top 55gal Steel
Original Container Size	55 gal
Original Container Condition	Bent on the Top Side and Corroded
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N/A
Vapor? (Y/N)	N/A
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	
Sampler Name	
Inside Container Sample ID # / Time	
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-6-16
Container ID #	LF035
Original Container Location	
Original Container Type	Closed Top 55 gal Steel
Original Container Size	55 gal
Original Container Condition	Bent on the Top and corroded
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N/A
Vapor? (Y/N)	N/A
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	N/A
Sampler Name	
Inside Container Sample ID # / Time	
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-6-16
Container ID #	LF036
Original Container Location	
Original Container Type	Closed Top 55gal Steel
Original Container Size	55 gal
Original Container Condition	Hole in the side and corroded
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	Y
Vapor? (Y/N)	N/A
PID Reading (ppm)	0 (+ in sample jar headspace)
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Liquid
Color	clear/brown
Notes	~~N/A~~ AM. Highly volatile, appears to be same liquid as LF021 (Acetone) from looking at sample jars
Sampler Name	LF036
Inside Container Sample ID # / Time	CS-LF036 / 6-6-16 @ 1350
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF037
Original Container Location	
Original Container Type	Closed Top 55gal Steel
Original Container Size	55 gal
Original Container Condition	Dent on Side and corroded
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	Leaking
Vapor? (Y/N)	N/A
PID Reading (ppm)	+ (~750 ppm from sample container headspace)
LEL Reading (%)	+
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Liquid
Color	Clear to brown
Notes	Solvent characteristics, highly volatile Likely Acetone as appears similar to LF021)
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF037 / 6-7-16 @ 1100 & split for EPA
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF038
Original Container Location	
Original Container Type	Closed Top 55 gal Steel
Original Container Size	55 gal
Original Container Condition	Corroded
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N/A
Vapor? (Y/N)	N/A
PID Reading (ppm)	[redacted] + (~650ppm in sample container headspace)
LEL Reading (%)	[redacted] +
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Liquid
Color	clear to brown
Notes	Solvent characteristics, highly volatile, likely acetone as appears similar to LF021
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF038 / 6-7-16 @ 1330
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF039
Original Container Location	
Original Container Type	Closed Top 55 gal Steel
Original Container Size	55 gal
Original Container Condition	Dented and corroded
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N/A
Vapor? (Y/N)	N/A
PID Reading (ppm)	+ ~800 ppm from headspace of sample bottle
LEL Reading (%)	+
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Liquid
Color	clear to slightly cloudy brown
Notes	Liquid acts as solvent (on sample bottle labels), likely acetone as similar to LF021
Sampler Name	
Inside Container Sample ID # / Time	CS-LF039 / 6-7-16 @ 1355, only enough volume for 3x 40mL VOAs
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF040
Original Container Location	
Original Container Type	55 gallon 2 ring
Original Container Size	55 gallon
Original Container Condition	rusted/damaged
Original Container Labels / Markings	~~X~~ 4-6 ETH
Outer / Overpack Container Type	no
Spill or Leak? (Y/N)	no
Vapor? (Y/N)	no
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF041
Original Container Location	
Original Container Type	55 gallon 2 ring
Original Container Size	55 gallon
Original Container Condition	damaged
Original Container Labels / Markings	NO
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.4
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF042
Original Container Location	
Original Container Type	55 gallon 2 ring.
Original Container Size	55 gallon
Original Container Condition	crushed
Original Container Labels / Markings	no
Outer / Overpack Container Type	no
Spill or Leak? (Y/N)	yes
Vapor? (Y/N)	~~no~~ yes
PID Reading (ppm)	100 (~850 ppm from sample jar headspace)
LEL Reading (%)	100
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	liquid
Color	clear to light brown
Notes	Solvent characteristics, highly volatile, likely acetone as appears similar to LF021
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF042 / 6-7-16 @ 1430
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF043
Original Container Location	
Original Container Type	55 gallon 2 ring
Original Container Size	55 gallon
Original Container Condition	damaged
Original Container Labels / Markings	NO
Outer / Overpack Container Type	No
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF044
Original Container Location	
Original Container Type	55 gallon 2 ring
Original Container Size	55 gallon
Original Container Condition	[redacted] damaged
Original Container Labels / Markings	5-1
Outer / Overpack Container Type	no
Spill or Leak? (Y/N)	no
Vapor? (Y/N)	no
PID Reading (ppm)	100
LEL Reading (%)	100
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	liquid
Color	Clear to very light brown
Notes	Solvent characteristics, highly volatile likely acetone as appears similar to LF021
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF044 / 6-8-16 @ 1150
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF045
Original Container Location	
Original Container Type	55 gallon 2 ring
Original Container Size	55 gallon
Original Container Condition	rotted, crumbled
Original Container Labels / Markings	NO
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF046
Original Container Location	
Original Container Type	Drilled gas cylinder assorted sizes
Original Container Size	assorted
Original Container Condition	Intact but drilled
Original Container Labels / Markings	US NAVY markings
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	± 20 cylinders with holes
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF047
Original Container Location	
Original Container Type	Gas cylinder
Original Container Size	Assorted
Original Container Condition	Intact
Original Container Labels / Markings	US NAVY Markings
Outer / Overpack Container Type	None
Spill or Leak? (Y/N)	NO
Vapor? (Y/N)	NO
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Gas
Color	N/A
Notes	14 undrilled cylinders packed into 3 5 gallon buckets
Sampler Name	—
Inside Container Sample ID # / Time	→
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Field Activity Daily Log

DATE	06	07	16
NO.			
SHEET		OF	

Project Name: MRFA Drum Excavation
Project No. 154035 / 155446
GE LF
Field Activity Subject: LF046 and LF047 Markings
Description of Daily Activities and Events:

Canister 1 Photo 1 US NAVY
1023-0131

Canister 2 Photo 4 US NAVY
1023-0289
ICC3E1800
DS2-55
HOKE

Canister 3 LD30

Canister 4 LS30
13

Canister 5 US NAVY
1023-0146

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE:	
SIGNATURE:	DATE:

0.25 in x 0.25 in

Form Number: 139_3
Rev. 01-18-13

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF048
Original Container Location	
Original Container Type	1 Gallon bucket
Original Container Size	1 Gallon
Original Container Condition	Top dented
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	NO
Spill or Leak? (Y/N)	no
Vapor? (Y/N)	NO
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	~~N/A~~ Feels Solid
Color	~~N/A~~ Gray
Notes	Visual appearance looks like dried paint.
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF048-LF049 / 6-9-16 @ 0850
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF049
Original Container Location	
Original Container Type	1 Gallon bucket
Original Container Size	1 Gallon
Original Container Condition	Top and Bottom dented
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	no
Spill or Leak? (Y/N)	no
Vapor? (Y/N)	no
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Feels Solid
Color	~~N/A~~ A.N. Gray
Notes	Visual appearance looks like dried paint
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF048-LF049 / 6-9-16@0850
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	
Container ID #	LF050
Original Container Location	
Original Container Type	55 gal Steel Close Top
Original Container Size	55
Original Container Condition	Rotten w/ Holes
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N
Vapor? (Y/N)	N
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	
Notes	Scrap
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	
Container ID #	LF051
Original Container Location	
Original Container Type	55 gal Steel Close Top
Original Container Size	55 gal 2 Rings
Original Container Condition	Rotten w/ Holes Damaged
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N
Vapor? (Y/N)	N
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	
Notes	Scrap
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	
Container ID #	LF052
Original Container Location	
Original Container Type	55 Gal Steel Close Top
Original Container Size	55 Gal 2 Rings
Original Container Condition	Rotten / Creases
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N
Vapor? (Y/N)	N
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	
Notes	Scrap
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	4

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	
Container ID #	LF053
Original Container Location	
Original Container Type	55 gal Steel Close Top
Original Container Size	55 gal 2 Rings
Original Container Condition	Rotten / Damaged
Original Container Labels / Markings	n/a
Outer / Overpack Container Type	n/a
Spill or Leak? (Y/N)	N
Vapor? (Y/N)	N
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.4
Physcial State (Liquid / Solid / Sludge / Powder)	n/a
Color	
Notes	Scrap
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	
Container ID #	LF054
Original Container Location	
Original Container Type	55 gal Close Top Steel
Original Container Size	55 gal 2 Rings
Original Container Condition	Rotten / Damaged w/ Holes
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N
Vapor? (Y/N)	N
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	
Notes	Scrap
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	
Container ID #	LF055
Original Container Location	
Original Container Type	55 gal Steel Close Top
Original Container Size	55gal 2 Rings
Original Container Condition	Rotted / Damaged / Holes
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N
Vapor? (Y/N)	N
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.4
Physcial State (Liquid / Solid / Sludge / Powder)	
Color	
Notes	Scrap
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	
Container ID #	LF056
Original Container Location	
Original Container Type	SS 6ML STEEL CLOSE TOP
Original Container Size	SS6ML 2 RINGS
Original Container Condition	ROTTEN / DAMAGED W/ HOLES
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	N
Vapor? (Y/N)	N
PID Reading (ppm)	0
LEL Reading (%)	0
Oxygen Reading (%)	20.4
Physcial State (Liquid / Solid / Sludge / Powder)	N/A
Color	N/A
Notes	SCRAP
Sampler Name	—
Inside Container Sample ID # / Time	—
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

Field Activity Daily Log

DATE	09	14	16
NO.	Wednesday		
SHEET	1	OF	1

Project Name: MRFA Project No. 154035

Field Activity Subject: Soil Borings/Sampling

Description of Daily Activities and Events:

0730 – Onsite with Cascade and Brian Neumann; EPA and Weston onsite; proceed to Admin 1 for badges

0800 – Tailgate/safety meeting and JSA; walk site and setup for drilling/sampling; Take EQ2-Water rinse sample at 0945 from drillstoc

1000 – ERS contractor for EPA onsite to pick up cylinders; start drilling/sampling SB-1. ERS offsite at ~1100

1230 – Boring SB-1 complete; samples collected at:
SB-1 (0ft-4ft) @1030
SB-1 (4ft-8ft) @1130 + EPA split sample
SB-1 (8ft-12ft) @1200
Setup for water sample due to PID ~20ppm during boring; water first encountered at ~14' bgs; drillers take lunch while water equilibrates in drill pipe.

1310 – Start sampling groundwater including split for EPA (GW-SB-1@1810); Parameters for the grab groundwater sample are:
Temp: 17.26°C pH: 5.14 Sp. Cond: 0.343 mS/cm
ORP: 308.2 mV DO: 4.08 mg/L Turb: 746.8 NTU

1445 – Sampling complete, not enough time to start new boring; pack up and secure site.

1500 – Cascade offsite; complete paperwork/COCs and pack samples

1600 – Mob to ALS service center in Albany to drop off samples.

1700 – Back at office, unload truck, finish paperwork

1730 – End Day

A.N.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
—	—
WEATHER CONDITIONS: 65-75°F, wind from the SW at ~10-15 mph; cloudy/overcast.	IMPORTANT TELEPHONE CALLS: —
CB&I PERSONNEL ON SITE: A. Norvelle, B. Neumann	
SIGNATURE:	DATE: 9-14-16

0.25 in x 0.25 in

Form Number: 139_3
Rev. 01-18-13

ZEBRA: Daily Project Report

Project Day & Date: 9-14-16

ZEBRA Office: Albany Crew Base: Albany

Z#: 203-16-8874 ZEBRA Unit #/Type: 203

PROJECT NAME: Global Foundries / Luther Forest cut-out

PROJECT LOCATION: Global Foundries / Malta NY

CLIENT/OFFICE: CB+I

Client Project #

Client PM: Adam Norvelle Client Site Contact:

Name/Company	Start	Arrive	Leave	Finish	Total Site Time	OT	Client Intl
Jx	7:30	7:30	3:00	2:30	7.5		
Jarrod							
Other Personnel On Site:							

Description of Work (detailed):

(2) soil borings to 20'/15' and (1) water grab

8.0 ~~7:00 3:30~~

APP DGW:

MATERIALS	QTY. USED	UNIT	EQUIPMENT	
MC Liners	7	Liners	Air Knife / Vac Ex	
Expendable Points	1	Points	Core Drill / Generator / Demo Saw	✓
"x 5' PVC Screen		PC's	Decon Pads	✓
"x 5' PVC Riser		PC's	Pump / Type check valve (1)	✓
PVC Points		Points	Steam / Pressure Washer	✓
Flush Mount Well Box/J-Plug		Boxes	Trailer (Decon / Utility)	
Tubing		Rolls	OTHER:	
Sand		Bags		
Bentonite/Hole Plug	3	Bags		
Asphalt/Blacktop		Bags		
Portland Cement/Concrete		Bags		
Drums (55 Gal.)	2			

Probe Tools Damaged / Lost:

Number of Points	Number of Samples	Soils	GW	Soil Vapor	Wells Installed Describe:
3	3	2	1		

Field Verification:

ZEBRA: JARROD A. DESPRES CLIENT (Print): Adam Norvelle

(Sign): (Sign):

Field Activity Daily Log

DATE	09	15	16
NO.	Thursday		
SHEET	1	OF	2

Project Name: MRFA Project No. 154035

Field Activity Subject: Soil Borings/Sampling

Description of Daily Activities and Events:

0700 - Load truck, get ice for samples, mob to site.
0730 - Onsite with Cascade and Mike from Weston (EPA rep); tailgate/safety meeting; setup for drilling.
0830 - Start drilling/sampling at SB-2
~~1330~~ AM. 1010 - Boring SB-2 complete; samples collected at:
SB-2 (0ft-4ft) @ 0910 + DUP2-SOIL
SB-2 (4ft-8ft) @ 0930
SB-2 (8ft-12ft) @ 0950 + EPA Split Sample
Setup for water sample due to elevated PID in soils; water first encountered at ~14' bgs
1020 - Start sampling groundwater (GW-SB-2@1020 + MS/MSD); parameters for grab sample:
Temp: 15.71°C pH: 7.32 5.93 Sp.Cond: 0.167 mS/cm
ORP: 99.5 mV DO: ~~3.71~~ 3.41 mg/L Turb: 7.7 NTU
1300 - Start drilling/Sampling SB-3
1420 - Boring SB-3 complete; samples collected at:
SB-3 (0ft-4ft) @ 1330 + EPA Split Sample
SB-3 (4ft-8ft) @ 1345
SB-3 (8ft-12ft) @ 1400 + EPA Split Sample
1430 - Start sampling groundwater (GW-SB-3@1430 + DUP2-WATER); water encountered at ~14' bgs; parameters for grab sample:
Temp: 16.08°C pH: 7.15 Sp.Cond: 0.112 mS/cm
ORP: -20.1 mV DO: 3.71 mg/L Turb: 7.0 NTU
1530 - Soil/Water/PPE drummed and labeled; Cascade and Weston offsite; re-secure drum area, pack samples for shipment, and prepare COCs.
1720 - Leave site; mob to ~~Albany~~ AM. FedEx in Albany to drop off samples

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: 45°F - 75°F, wind from the SW at ~5-10 mph, mostly sunny.	IMPORTANT TELEPHONE CALLS:
CB&I PERSONNEL ON SITE: A. Norvelle	
SIGNATURE:	DATE: 9-15-16

0.25 in x 0.25 in

Form Number: 139_3
Rev. 01-18-13

Field Activity Daily Log

DATE	09	15	16
NO.	Thursday		
SHEET	2	OF	2

Project Name: MRFA Project No. 154035

Field Activity Subject: Soil Borings/Sampling

Description of Daily Activities and Events:

1800 - Four coolers shipped from Fedex to Albany; mob to office, unload truck, and finish paperwork

1930 - End Day

A.N.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS: See Page

IMPORTANT TELEPHONE CALLS:

CB&I PERSONNEL ON SITE: Adam Norvelle

SIGNATURE:

DATE: 9-15-16

0.25 in x 0.25 in

Form Number: 139_3

Rev. 01-18-13

ZEBRA: Daily Project Report

Project Day & Date: 9-15-16

ZEBRA Office: Albany Crew Base: Albany

Z#: 203-16-8814 ZEBRA Unit #/Type:

PROJECT NAME: Global Foundries / Luther Forest ext/ext

PROJECT LOCATION: Global Foundries / Malta NY

CLIENT/OFFICE: CB+I

Client Project #

Client PM: Adam Norvelle Client Site Contact:

Name/Company	Start	Arrive	Leave	Finish	Total Site Time	OT	Client Intl
Joe	7:30	7:30	4:00	3:30	8.0		
Jarrod							
Other Personnel On Site:							

Description of Work (detailed):

(4) soil borings to 20'/15' and (2) water grabs

APP DGW:

MATERIALS	QTY. USED	UNIT	EQUIPMENT	
MC Liners	14	Liners	Air Knife / Vac Ex	
Expendable Points	2	Points	Core Drill / Generator / Demo Saw	✓
"x 5' PVC Screen		PC's	Decon Pads	
"x 5' PVC Riser		PC's	Pump / Type Peristaltic Pump	✓ /
PVC Points		Points	Steam / Pressure Washer	✓
Flush Mount Well Box/J-Plug		Boxes	Trailer (Decon / Utility)	
Tubing		Rolls	OTHER:	
Sand		Bags		
Bentonite/Hole Plug	4	Bags		
Asphalt/Blacktop		Bags		
Portland Cement/Concrete		Bags		
Drums (55 Gal.)	1			

Probe Tools Damaged / Lost:

Number of Points	Number of Samples	Soils	GW	Soil Vapor	Wells Installed Describe:
6	6	4	2		

Field Verification:

ZEBRA: Jarrod A [illegible] CLIENT (Print): Adam Norvelle

(Sign):

CBI	PROJECT NO. 154035	WELL/BORING NO. SB-1 PAGE 1 OF 1
CLIENT: GE/Luther Forest	DRILL RIG/METHOD: DPT	CASING/WELL DIA.: —
LOCATION: Malta, NY	SAMPLING METHOD: Dual Tube	WELL DEPTH: —
START/END DATES: 9-14-16	GROUND SURFACE: Bare Ground	FLUSH/STICKUP: —
LOGGED BY: A. Norvelle	HOLE DIAMETER: 3.25"	COMMENTS: 2 borings for recovery + 3rd for water with screen from 14-18' bgs.
DRILL COMPANY: Cascade/Zebra	HOLE DEPTH: 20' bgs	
DRILLER: J. Hutchins	BACKFILL: Bentonite Chips	

Sample / WELL COMPLETION	PRODUCT ODOR	MOISTURE CONTENT	PID (ppm)	PENETRATION (BLOWS/ 6")	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY/REMARKS
SB-1 (0ft-4ft) @ 1030	NPO	Moist		NA	1			SP	Poorly graded sand; dark yellowish brown (10YR 3/6); 100% fine to medium sand, subangular; moist; medium dense; trace fines.
			19.0		2				
					3				
					4				
SB-1 (4ft-8ft) @ 1130 + EPA Split Sample					5				
			20.1		6				
					7				
					8				
SB-1 (8ft-12ft) @ 1200 + MS/MSD					9				
			17.6		10				
					11				
					12				
					13				
		Wet	20.5 (NH)		14				Wet at 14' bgs; dark brown (10YR 3/3).
GW-SB-1 @ 1310 + EPA Split Sample					15				
					16				
					17				
					18				
					19				
					20				Boring terminated at 20' bgs, target depth achieved (groundwater).

	PROJECT NO. 154035	WELL/BORING NO. SB-2 PAGE 1 OF 1
CLIENT: GE/Luther Forest	DRILL RIG/METHOD: DPT	CASING/WELL DIA.: —
LOCATION: Malta, NY	SAMPLING METHOD: Dual Tube	WELL DEPTH: —
START/END DATES: 9-15-16	GROUND SURFACE: Bare Ground	FLUSH/STICKUP: —
LOGGED BY: A. Norvelle	HOLE DIAMETER: 3.25"	COMMENTS: 2 borings for recovery + 3rd for water with screen from 14-18' bgs
DRILL COMPANY: Cascade/Zebra	HOLE DEPTH: 20' bgs	
DRILLER: J. Hutchins	BACKFILL: Bentonite Chips	

Samples / WELL COMPLETION	PRODUCT ODOR	MOISTURE CONTENT	PID (ppm)	PENETRATION (BLOWS/ 6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY/REMARKS
SB-2 (0ft-4ft) @0910 + DUP2-SOIL	NPO	Moist	5.6	NA	1-4	X	X	. .	SP	Poorly graded Sand; dark yellowish brown (10YR 3/6); 100% fine to medium sand; subangular; moist; medium dense; trace fines.
SB-2 (4ft-8ft) @0930	VOC odor		14.0		5-8	X	X	. .		~5'— VOC odor and color change to grayish brown (10YR 5/2)
SB-2 (8ft-12ft) @0950 + EPA Split Sample			75.5		9-12	X	X	. .		
		wet	67.0		13-14	X		. .		Wet at 14' bgs; dark brown (10YR 3/3)
GW-SB-2 @1020 + MS/MSD					15-20	X	X	. .		Boring terminated at 20' bgs, target depth achieved (groundwater)

GEI	PROJECT NO. 154035	WELL/BORING NO. SB-3 PAGE 1 OF 1
CLIENT: GE/Luther Forest	DRILL RIG/METHOD: DPT	CASING/WELL DIA.: —
LOCATION: Malta, NY	SAMPLING METHOD: Dual Tube	WELL DEPTH: —
START/END DATES: 9-15-16	GROUND SURFACE: Bare Ground	FLUSH/STICKUP: —
LOGGED BY: A. Norvelle	HOLE DIAMETER: 3.25"	COMMENTS: 2 borings for recovery + 3rd for water with screen from 14-18'bgs
DRILL COMPANY: Cascade/Zebra	HOLE DEPTH: 20'bgs	
DRILLER: J. Hutchins	BACKFILL: Bentonite Chips	

WELL COMPLETION	PRODUCT ODOR	MOISTURE CONTENT	PID (ppm)	PENETRATION (BLOWS/ 6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY/REMARKS
SB-3 (0ft-4ft) @1330 + EPA Split Sample	NPO	Moist	23.6	NA	1	X	X		SP	Poorly graded sand; dark yellowish brown (10YR 3/6); 100% fine to medium sand, subrounded; medium dense; moist; trace fines.
					2					
					3					
					4	X				
SB-3 (4ft-8ft) @1345			15.3		5	X	X			
					6					
					7					
SB-3 (8ft-12ft) @1400 + EPA Split Sample			17.7		8					
					9	X				
					10	X	X			
					11					
					12					
			20.8		13					
		Wet			14	X				Wet at 14'bgs; dark brown (10YR 3/3)
GW-SB-3 @1430 + DUP2-WATER					15	X	X			
					16					
					17					
					18					
					19	X				
N.N.					20		X			Boring terminated at 20'bgs, target depth achieved (groundwater)

	Title: Tailgate Safety Meeting Form	No: EIG-HS-051 Attachment No. 2

Attachment 2
Tailgate Safety Meeting Form

Project Name/Number: 154035 Date: 9-14-16 Time: 0800
Client: GE / Luther Forest
Work Activities: Soil Borings / Groundwater Sampling
Hospital Name/Address: Saratoga Hospital, 211 Church St, Saratoga Springs, NY
Hospital Telephone No.: 518-587-1141 Ambulance Telephone No.: 911

Safety Topics Presented

Chemical Hazards: VOCs in soil and possibly groundwater (PCE, TCE, MEK, Acetone, benzene, chloroform), Alconox and isopropyl alcohol for cleaning.
Physical Hazards: Slips/trips/falls, rain/lightning, heavy equipment (drill rig), noise (rig), dehydration; bugs/ticks,
Personal Protective Equipment:
Activity: Drilling / Sampling PPE Level: D
Activity: PPE Level:
Activity: PPE Level:
Activity: PPE Level:
Activity: PPE Level:
New Equipment: Direct Push Drill Rig.
Other Safety Topic(s):

Attendees

NAME PRINTED	SIGNATURE
Adam Norvelle	
Brian Neumann	
Mike Garibaldi	
David A. Dahl	
Joe Hutchins	

Meeting conducted by:
Adam Norvelle

MRFA
Soil Borings / Sampling

154035
9-14-16

Step-back 5 X 5

1. Step Though the Task	Yes	No
Is the task new to you?		✓
Is there potential for uncontrolled movement of equipment?		✓
Is there restricted access to and around the work area?	✓	
Has the job or job conditions changed from what was originally planned?		✓
Are there any injury hazards present for which you don't have the adequate controls? **If yes STOP and update the JSA before proceeding.**		✓
On the back of this card identify the hazards of this task and their controls. Has this step been completed?	✓	
2. Hazard Checklist	**Yes**	**No**
Do you have and know the plan of action in case of an emergency?	✓	
Have you read and do you understand the JSA?	✓	
Are your tools and equipment in good condition and correct for the task?	✓	
Have you read and do you understand the requirements of the Work Permits? (if not applicable mark NA)	✓	
Can the task you are about to begin proceed safety? **If no STOP and contact your supervisor.**	✓	
On completion have you left a hazard for those following you? **If yes STOP and contact your supervisor.**		✓
Review the job on an ongoing basis – stop work and reassess if conditions change.	—	

CMS-710-05-FM-01706 (Front) 30 JUN 2010

Step-back 5 X 5

HAZARD	CONTROL
1. Slips / Trips / Falls	Proper footing
2. Site Contaminants (VOCs)	PPE / air monitoring
3. Rain / Lightning	Be aware
4. Heavy Equipment (rig)	Qualified operator
5. Noise (rig)	Earplugs
6. Bugs / Holes	Check clothes / avoid brush
7.	
8.	
9.	

	Title: Tailgate Safety Meeting Form	No: EIG-HS-051 Attachment No. 2

Attachment 2
Tailgate Safety Meeting Form

Project Name/Number: 154035 Date: 9-15-16 Time: 0730
Client: GE/Luther Forest
Work Activities: Soil Borings / Groundwater Sampling
Hospital Name/Address: Saratoga Hospital, 211 Church St, Saratoga Springs, NY
Hospital Telephone No.: 518-587-1141 Ambulance Telephone No.: 911

Safety Topics Presented

Chemical Hazards: VOCs in soil and possibly groundwater (PCE, TCE, MEK, acetone, benzene, chloroform), Alconox and isopropyl alcohol (for cleaning
Physical Hazards: Slips/trips/falls, dehydration, heavy equipment (rig), noise, bugs/ticks

Personal Protective Equipment:

Activity: Drilling/Sampling PPE Level: D
Activity: _____ PPE Level: _____
Activity: _____ PPE Level: _____
Activity: _____ PPE Level: _____
Activity: _____ PPE Level: _____

New Equipment: _____
Other Safety Topic(s): _____

Attendees

NAME PRINTED	SIGNATURE
Adam Norvelle	
Joe Hutchins	
James A. Desrosiers	

Meeting conducted by: Adam Norvelle

MRFA
Soil Borings/Sampling

154035
9-15-16

Step-back 5 X 5

1. *Step Though the Task*	Yes	No
Is the task new to you?		✓
Is there potential for uncontrolled movement of equipment?		✓
Is there restricted access to and around the work area?	✓	
Has the job or job conditions changed from what was originally planned?		✓
Are there any injury hazards present for which you don't have the adequate controls? **If yes STOP and update the JSA before proceeding.**		✓
On the back of this card identify the hazards of this task and their controls. Has this step been completed?	✓	
2. *Hazard Checklist*	**Yes**	**No**
Do you have and know the plan of action in case of an emergency?	✓	
Have you read and do you understand the JSA?	✓	
Are your tools and equipment in good condition and correct for the task?	✓	
Have you read and do you understand the requirements of the Work Permits? (if not applicable mark NA)	✓	
Can the task you are about to begin proceed safety? **If no STOP and contact your supervisor.**	✓	
On completion have you left a hazard for those following you? **If yes STOP and contact your supervisor.**		✓
Review the job on an ongoing basis – stop work and reassess if conditions change.	✓	

CMS-710-05-FM-01706 (Front) 30 JUN 2010

Step-back 5 X 5

HAZARD	CONTROL
1. Site Contaminants (VOCs)	PPE / air monitoring
2. Dehydration	Drink water
3. Heavy Equipment (rig)	Qualified Operator
4. Noise (rig)	Earplugs
5. Bugs / Ticks	Check clothes / avoid brush
6. Slips / Trips / Falls	Proper footing
7.	
8.	
9.	

Job Safety Analysis (JSA)

Date: 9-14-16 to 9-15-16

Pre-Job Preparation	Safety Access / Location	Employee Authorization to STOP Work
1. Get Permit for Job 2. Fill out JSA 3. Review JSA (EVERYONE) 4. Sign JSA (EVERYONE)	Eye Wash / Safety Shower: NA Wind Direction: Evacuation Route: Road up to South Gate gravel lot Assembly Point: South gate gravel lot	I have been given authorization, without fear of reprimand or retaliation, to immediately **STOP** any work activity that presents a danger to me, my co-worker or the public; get involved, question and rectify any situation that is identified as not being in compliance with our safety and health policies; to report any unsafe conditions or acts to supervision and question any activity that involves violation of established Safety and Health policies.

Job Tasks: (What are you doing?)	Potential Hazards:	Recommended Action or Procedure to eliminate / mitigate Hazards
Drilling and soil/groundwater sampling	Slips/trips/falls; site contaminants (VOCs); rain/lightning; heavy equipment (drill rig); noise (drill rigs); pinch points; heavy objects; bugs/ticks	Good Housekeeping; proper footing; proper PPE; drink water; be aware of rain/lightning; check for ticks; air monitoring

Crew Name Signatures

Job Close Out

Any incidents / Injuries / Near miss / STOP work reported? List:	**Job Audited** Time: Supervisor / Auditor Signature:	**Recommendations:**

Before starting work: *Is this the SAFEST way to do this JOB?*

"I will not put myself or let my co-workers perform any task that I would not allow my son or daughter in, on or around."

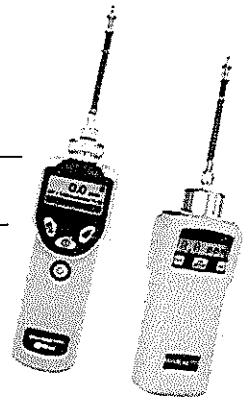
Consider the following and check the items which apply to the job, then review with the work crew.

Job Safety Analysis (JSA)

9-14-16 to 9-15-16

PERMITS	WELDING	HAZARDS (ENVIRONMENTAL)	ELECTRICAL	HAZARDS / BODY	EMERGENCY EQUIPMENT	PERSONAL PROTECTIVE EQUIP. (PPE)
☐ Excavation / Trench ("One Call" made)	☐ Flash burns	☐ Electrical Shock	☐ Locked & Tagged out	☐ Fall Potential	☒ Fire Extinguishers	☐ Rubber Gloves
☐ Cold Work	☐ Combustibles	☒ Heat Stress	☐ Try Start / Stop Switch	☒ Pinch Points	☐ Safety Shower	☒ Leather Gloves
☐ Hot Work	☐ Spark Containment	☒ Heavy Objects	☐ GFCI Test	☒ Slip-Trip Potential	☒ Evacuation Route	☒ Special Purpose Gloves Nitriles
☐ Entry Permit / Confined Space	☐ Shields	☐ Hot / Cold Surf. or Mat.	☐ Assured Grounding	☐ Other	**Lifts / Rigging**	☐ Slicker Suit
☐ Line Breaking	☐ Grounding	☐ Inadequate Lighting	☐ Extension Cord Inspection	**HAZARDS / CHEMICALS**	☐ Critical Lift	☐ Acid Suit
☐ Signed Off When Complete	☐ Fire Extinguisher	☐ Line Breaking – **Check List attached**	**OTHER WORK IN AREA**	☐ Chemical Burn Skin	☐ Manual Lifting	☐ Rubber Boots
☐ LO/TO	☐ Water Hose	☒ Noise	☐ Others Working Overhead	☐ Chemical Burn Eyes	☐ Softeners	☐ Metatarsals
☐ Other	☐ Fire Blanket	☐ Sharp Objects	☐ Type Work Others Doing:	☐ Flammable	☐ Proper Rigging Practices	☒ Respirator (as needed based on air monitoring)
ACCESS	☐ Fire Watch	☐ Other	☐	☐ Ingestion	☐ Chain fall, Come a long	☐ ½ face
☐ Scaffold (properly inspected ____)	☐ Leads routed overhead 7' / not in walk way	☐ Poor Access / Egress	☐ PPE Due to Other Work	☒ Other Site contaminants (VOCs)	☐ Inspected - in good condition	☐ Full Face
☐ Ladder (Tied off ____)	☐ Sewer Covers	**TOOLS**	☐ Other	☐ Inhalation	☐ Crane	☐ PAPR
☐ Man lift (inspected)	**OVERHEAD WORK**	☒ Proper Tools for the Job	**Confined Space Know the Following:**	☐ Skin Contamination	☐ Forklift	☐ Fresh Air
☐ Personnel Basket (inspected & approved ____)	☐ Barricades	☒ Good Tool Condition	• **Possible hazards within the confined space**		☐ Operator Certificate	☐ Hearing Protection
☐ Operator Training	☐ Hole Cover	☒ Qualifications	• **First signs of exposure**		☐ Condition of Equipment – Inspection Checklist	☐ Safety Harness
	☐ Signs	☒ Current Inspection	• **How to summons help**		☐ Rigging and Lifting JSP - Required	☐ Approved Anchor Points
	☐ Handrail	☐ Tool Tethers	• **How to track personnel**		**Barricades**	☐ Mono Goggles (vented / non-vented)
Worksite Stretches:		☐ Tool Lanyards	• **Entering and exiting the confined space**		☐ Tags on all sides	☐ Face Shield
• Before shift / Pre-task / End of shift			• **Maintain contact with all entrants by voice or visual**		☐ Stands Used	☐ Kevlar Gloves
• Stretch to a point where you feel a mild tension and relax as you hold the stretch.			Do not attempt to rescue unless you are a part of a Trained in confined space rescue.		☐ 42" high	☐ Kevlar Sleeves
• **Stretches should be held for 10-30 seconds.**			Remain at entry point; assume no duties that will take you from there.		☒ Caution / Yellow	☐ Fire Retardant Clothing
• Always stretch within your comfort limits, never to the point of pain.			Signs posted to identify confined space?		☒ Danger / Red	☒ Safety glasses with ANSI app. Side Shields
					☐ Taken down at the end of shift	☐ Welding hood
						☐ Burning Goggles
						☐ Other

PID Calibration Form



Project (Name/Number): MRFA / 154035

Name(s): A. Norvelle

PID Type: MiniRAE 3000

Serial #: 13332 (PINE)

Calibration Standard / Concentration	Date: 9-14-16 Reading	Date: 9-15-16 Reading	Date: _____ Reading	Date: _____ Reading	Date: _____ Reading
100 ppm Isobutylene	100.1	100.0			
Fresh Air Calibration	0.0	0.0			

Name(s): _____

PID Type: _____

Serial #: _____

Calibration Standard / Concentration	Date: _____ Reading	Date: _____ Reading	Date: _____ Reading	Date: _____ Reading	Date: _____ Reading
100 ppm Isobutylene					
Fresh Air Calibration					

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.
405 Cambridge Ave
Syracuse, NY 13208
Toll-free: (877) 903-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 13332
Description MiniRae 3000
Calibrated 8/31/2016 4:51:26PM

Manufacturer Rae Systems
Model Number PGM-7320
Serial Number/ Lot Number 592-901139
Location New York
Department

State Certified
Status Pass
Temp °C 20
Humidity % 40

Calibration Specifications

Group # 1
Group Name Isobutylene
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
100.00 / 100.00	PPM	100.00	PPM	100.00	100.00	0.00%	Pass

Test Instruments Used During the Calibration (As Of Cal Entry Date)

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Next Cal Date / Last Cal Date/ Expiration Date Opened Date
NYS ISO 100 - 0310FM14	NYS ISO 100 PPM - 34L	American Gas Group	GP11012	0310FM14	3/10/2018

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Joseph P. Burkhart

All instruments are calibrated by Pine Environmental Services, LLC. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, LLC. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance

COMBUSTIBLE GAS/OXYGEN METER CALIBRATION LOG

Project Name MRFA / 154035 Project No. 154035

Instrument: Mfg/Model/Serial No. QRAE II / 25937 (PINE)

Date	Time	Initials	Battery Charged (Y/N)	Audible Alarm Check (Y/N)		Zero Checked (Y/N)		Calibration Standard	Calibration Standard (%)		Actual Meter Reading (%)		Ambient Air Rezero Check	
				LEL	O_2	LEL (0%)	20.9 O_2 ~~(20.8%)~~		LEL	O_2	LEL	O_2	LEL (0%)	20.9 O_2 ~~(20.8%)~~
9-14-16	0830	A.N.	Y	Y	Y	Y	Y	Multi-gas from pine	50	20.9	50	20.9	0	20.9
9-15-16	0800	A.N.	Y	Y	Y	Y	Y	Multi-gas from pine	50	20.9	50	20.9	0	20.9

Comments

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.
405 Cambridge Ave
Syracuse, NY 13208
Toll-free: (877) 903-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 25937
Description QRAEII
Calibrated 9/7/2016 3:29:14PM

Manufacturer Rae Systems
Model Number PGM-2400
Serial Number/ Lot Number 181-155459
Location New York
Department

State Certified
Status Pass
Temp °C 20
Humidity % 40

Calibration Specifications

Group # 1
Group Name Carbon Monoxide
Stated Accy Pct of Range
Range Acc % 3.0000
Reading Acc % 0.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
50.00 / 50.00	PPM	50.00	PPM	50.00	50.00	0.00%	Pass

Group # 2
Group Name Hydrogen Sulfide
Stated Accy Pct of Range
Range Acc % 3.0000
Reading Acc % 0.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
10.00 / 10.00	PPM	10.00	PPM	10.00	10.00	0.00%	Pass

Group # 3
Group Name Methane
Stated Accy Pct of Range
Range Acc % 3.0000
Reading Acc % 0.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
50.00 / 50.00	%LEL	50.00	%LEL	50.00	50.00	0.00%	Pass

Group # 4
Group Name Oxygen
Stated Accy Pct of Range
Range Acc % 3.0000
Reading Acc % 0.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
18.00 / 18.00	%Volume	18.00	%Volume	18.00	18.00	0.00%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Next Cal Date / Last Cal Date/ Expiration Date / Opened Date
NYS 4 GAS - CAQ-413-18-9	NYS 4 GAS 10H2S/50C0/50LEL/18 OXY - 34L	Pine Environmental Services, Inc.	GP12084		2/19/2018

Attachment 2
Tailgate Safety Meeting Form

Project Name/Number: 155114 Date: 9-13-16 Time: 0800

Client: GE Niskayuna

Work Activities: Well Repairs

Hospital Name/Address: Ellis Hospital, 1101 Nott St., Schenectady, NY 12308

Hospital Telephone No.: 518-243-4000 Ambulance Telephone No.: 518-387-6118 and 911 (GE Security)

Safety Topics Presented

Chemical Hazards: Possible site contaminants from well casing

Physical Hazards: Slips/trips/falls, hand tools/pinch points, dehydration, vehicle traffic; air hammer

Personal Protective Equipment:

Activity: Well Repairs PPE Level: D

Activity: _____ PPE Level: _____

Activity: _____ PPE Level: _____

Activity: _____ PPE Level: _____

Activity: _____ PPE Level: _____

New Equipment: _____

Other Safety Topic(s): _____

Attendees

NAME PRINTED	SIGNATURE
Adam Norvelle	
JARED A. VOSS	

Meeting conducted by: Adam Norvelle

Job Safety Analysis (JSA)

Date: 9-13-16

Pre-Job Preparation	Safety Access / Location	Employee Authorization to STOP Work
1. Get Permit for Job 2. Fill out JSA 3. Review JSA (EVERYONE) 4. Sign JSA (EVERYONE)	Eye Wash / Safety Shower: ECF Building Wind Direction: from the North ~5mph Evacuation Route: Road to former ARB Assembly Point: former ARB	I have been given authorization, without fear of reprimand or retaliation, to immediately **STOP** any work activity that presents a danger to me, my co-worker or the public; get involved, question and rectify any situation that is identified as not being in compliance with our safety and health policies; to report any unsafe conditions or acts to supervision and question any activity that involves violation of established Safety and Health policies.

Job Tasks: (What are you doing?)	Potential Hazards:	Recommended Action or Procedure to eliminate / mitigate Hazards
Well Repairs	Slips/trips/falls; hand tools, pinch points; dehydration; vehicle traffic; possible site contaminants from well casing; air hammer	Appropriate PPE (Level D + nitrile/~~latex~~ leather gloves as needed); Good footing; good housekeeping; drink water; be aware.

Crew Name Signatures

Job Close Out

Any incidents / Injuries / Near miss / STOP work reported? List:	**Job Audited** Time: Supervisor / Auditor Signature:	**Recommendations:**

Before starting work: *Is this the SAFEST way to do this JOB?*

"I will not put myself or let my co-workers perform any task that I would not allow my son or daughter in, on or around."

Consider the following and check the items which apply to the job, then review with the work crew.

Job Safety Analysis (JSA)

PERMITS
- ☐ Excavation / Trench ("One Call" made)
- ☐ Cold Work
- ☐ Hot Work
- ☐ Entry Permit / Confined Space
- ☐ Line Breaking
- ☐ Signed Off When Complete
- ☐ LO/TO
- ☐ Other

ACCESS
- ☐ Scaffold (properly inspected ____)
- ☐ Ladder (Tied off ____)
- ☐ Man lift (inspected)
- ☐ Personnel Basket (inspected & approved ____)
- ☐ Operator Training

WELDING
- ☐ Flash burns
- ☐ Combustibles
- ☐ Spark Containment
- ☐ Shields
- ☐ Grounding
- ☐ Fire Extinguisher
- ☐ Water Hose
- ☐ Fire Blanket
- ☐ Fire Watch
- ☐ Leads routed overhead 7' / not in walk way
- ☐ Sewer Covers

OVERHEAD WORK
- ☐ Barricades
- ☐ Hole Cover
- ☐ Signs
- ☐ Handrail

Worksite Stretches:
- Before shift / Pre-task / End of shift
- Stretch to a point where you feel a mild tension and relax as you hold the stretch.
- **Stretches should be held for 10-30 seconds.**
- Always stretch within your comfort limits, never to the point of pain.

HAZARDS (ENVIRONMENTAL)
- ☐ Electrical Shock
- ☒ Heat Stress
- ☒ Heavy Objects
- ☐ Hot / Cold Surf. or Mat.
- ☐ Inadequate Lighting
- ☐ Line Breaking –
- ☐ **Check List attached**
- ☐ Noise
- ☐ Sharp Objects
- ☐ Other
- ☐ Poor Access / Egress

TOOLS
- ☒ Proper Tools for the Job
- ☒ Good Tool Condition
- ☐ Qualifications
- ☐ Current Inspection
- ☐ Tool Tethers
- ☐ Tool Lanyards

ELECTRICAL
- ☐ Locked & Tagged out
- ☐ Try Start / Stop Switch
- ☐ GFCI Test
- ☐ Assured Grounding
- ☐ Extension Cord Inspection

OTHER WORK IN AREA
- ☐ Others Working Overhead
- ☐ Type Work Others Doing:
- ☐
- ☐ PPE Due to Other Work
- ☐ Other

HAZARDS / BODY
- ☐ Fall Potential
- ☒ Pinch Points
- ☒ Slip-Trip Potential
- ☐ Other

HAZARDS / CHEMICALS
- ☐ Chemical Burn Skin
- ☐ Chemical Burn Eyes
- ☐ Flammable
- ☐ Ingestion
- ☒ Other S.E. contaminants
- ☐ Inhalation
- ☐ Skin Contamination

Confined Space Know the Following:
- **Possible hazards within the confined space**
- **First signs of exposure**
- **How to summons help**
- **How to track personnel**
- **Entering and exiting the confined space**
- **Maintain contact with all entrants by voice or visual**

Do not attempt to rescue unless you are a part of a Trained in confined space rescue.
Remain at entry point; assume no duties that will take you from there.
Signs posted to identify confined space?

EMERGENCY EQUIPMENT
- ☒ Fire Extinguishers
- ☐ Safety Shower
- ☒ Evacuation Route

Lifts / Rigging
- ☐ Critical Lift
- ☒ Manual Lifting
- ☐ Softeners
- ☐ Proper Rigging Practices
- ☐ Chain fall, Come a long
- ☐ Inspected - in good condition
- ☐ Crane
- ☐ Forklift
- ☐ Operator Certificate
- ☐ Condition of Equipment – Inspection Checklist
- ☐ Rigging and Lifting JSP - Required

Barricades
- ☐ Tags on all sides
- ☐ Stands Used
- ☐ 42" high
- ☐ Caution / Yellow
- ☐ Danger / Red
- ☐ Taken down at the end of shift

PERSONAL PROTECTIVE EQUIP. (PPE)
- ☐ Rubber Gloves
- ☒ Leather Gloves
- ☒ Special Purpose Gloves Nitrile
- ☐ Slicker Suit
- ☐ Acid Suit
- ☐ Rubber Boots
- ☐ Metatarsals
- ☐ Respirator
- ☐ ½ face
- ☐ Full Face
- ☐ PAPR
- ☐ Fresh Air
- ☐ Hearing Protection
- ☐ Safety Harness
- ☐ Approved Anchor Points
- ☐ Mono Goggles (vented / non-vented)
- ☐ Face Shield
- ☐ Kevlar Gloves
- ☐ Kevlar Sleeves
- ☐ Fire Retardant Clothing
- ☒ Safety glasses with ANSI app. Side Shields
- ☐ Welding hood
- ☐ Burning Goggles
- ☐ Other

ZEBRA: Daily Project Report

Project Day & Date: 9/13/16

ZEBRA Office: Albany Crew Base: Albany

Z#: 203-16-8854) ZEBRA Unit #/Type: 203

PROJECT NAME: CBI/Nistayuna NY

PROJECT LOCATION: CBI / GE

CLIENT/OFFICE:

Client Project #

Client PM: Client Site Contact: Adam Norvelle

Name/Company	Start	Arrive	Leave	Finish	Total Site Time	OT	Client Intl
Jewel	8:00	8:15	12:15	12:00	4.0		
Other Personnel On Site:							

Description of Work (detailed):

Replaced (2) well boxes / concrete pads

APP DGW:

MATERIALS	QTY. USED	UNIT	EQUIPMENT	
MC Liners		Liners	Air Knife / Vac Ex	
Expendable Points		Points	Core Drill / Generator / Demo Saw	
"x 5' PVC Screen		PC's	Decon Pads	
"x 5' PVC Riser		PC's	Pump / Type	
PVC Points		Points	Steam / Pressure Washer	
Flush Mount Well Box/J-Plug	2/2	Boxes	Trailer (Decon / Utility)	
Tubing		Rolls	OTHER:	
Sand		Bags		
Bentonite/Hole Plug		Bags		
Asphalt/Blacktop		Bags		
Portland Cement/Concrete	8	Bags		
Drums (55 Gal.)				

Probe Tools Damaged / Lost:

Number of Points	Number of Samples	Soils	GW	Soil Vapor	Wells Installed Describe: replaced (2) well boxes
2					

Field Verification:

ZEBRA: DAVID A. DePAS CLIENT (Print): Adam Norvelle

(Sign):

Attachment E

June 2016 Lab Results

ALS Environmental

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

June 8, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2147287**
Purchase Order:		Workorder ID:	**CBR012|MaltaRocketFuelArea/154**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Saturday, May 28, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2147287 CBR012|MaltaRocketFuelArea/154

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2147287001	EQ 1-Water	NY Non-Potable Water	5/26/2016 11:20	5/28/2016 10:00	Collected by Client
2147287002	Trip Blank	NY Non-Potable Water	5/26/2016 00:00	5/28/2016 10:00	Collected by Client

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2147287 CBR012|MaltaRocketFuelArea/154

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

PROJECT SUMMARY

Workorder: 2147287 CBR012|MaltaRocketFuelArea/154

Sample Comments

Lab ID: 2147287001 **Sample ID:** EQ 1-Water **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.
Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.

Lab ID: 2147287002 **Sample ID:** Trip Blank **Sample Type:** SAMPLE

Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147287 CBR012|MaltaRocketFuelArea/154

Lab ID: **2147287001** Date Collected: 5/26/2016 11:20 Matrix: NY Non-Potable Water

Sample ID: **EQ 1-Water** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		6/2/16 18:30	TMP	A
Benzene	0.25J	J	ug/L	1.0	0.23	SW846 8260C		6/2/16 18:30	TMP	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/2/16 18:30	TMP	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/2/16 18:30	TMP	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/2/16 18:30	TMP	A
Bromomethane	1.0 U	U	ug/L	1.0	0.39	SW846 8260C		6/2/16 18:30	TMP	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/2/16 18:30	TMP	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/2/16 18:30	TMP	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/2/16 18:30	TMP	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/2/16 18:30	TMP	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/2/16 18:30	TMP	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/2/16 18:30	TMP	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/2/16 18:30	TMP	A
Chloromethane	0.40J	J	ug/L	1.0	0.31	SW846 8260C		6/2/16 18:30	TMP	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/2/16 18:30	TMP	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/2/16 18:30	TMP	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/2/16 18:30	TMP	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/2/16 18:30	TMP	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/2/16 18:30	TMP	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/2/16 18:30	TMP	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/2/16 18:30	TMP	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/2/16 18:30	TMP	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/2/16 18:30	TMP	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/2/16 18:30	TMP	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/2/16 18:30	TMP	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/2/16 18:30	TMP	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/2/16 18:30	TMP	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/2/16 18:30	TMP	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/2/16 18:30	TMP	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/2/16 18:30	TMP	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/2/16 18:30	TMP	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/2/16 18:30	TMP	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/2/16 18:30	TMP	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/2/16 18:30	TMP	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		6/2/16 18:30	TMP	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/2/16 18:30	TMP	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147287 CBR012|MaltaRocketFuelArea/154

Lab ID: **2147287001** Date Collected: 5/26/2016 11:20 Matrix: NY Non-Potable Water

Sample ID: **EQ 1-Water** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/2/16 18:30	TMP	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C			6/2/16 18:30	TMP	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C			6/2/16 18:30	TMP	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/2/16 18:30	TMP	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C			6/2/16 18:30	TMP	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C			6/2/16 18:30	TMP	A
Toluene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C			6/2/16 18:30	TMP	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C			6/2/16 18:30	TMP	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C			6/2/16 18:30	TMP	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C			6/2/16 18:30	TMP	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			6/2/16 18:30	TMP	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/2/16 18:30	TMP	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/2/16 18:30	TMP	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/2/16 18:30	TMP	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			6/2/16 18:30	TMP	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/2/16 18:30	TMP	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			6/2/16 18:30	TMP	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.3		%	62 - 133	SW846 8260C			6/2/16 18:30	TMP	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260C			6/2/16 18:30	TMP	A
Dibromofluoromethane (S)	85.7		%	78 - 116	SW846 8260C			6/2/16 18:30	TMP	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260C			6/2/16 18:30	TMP	A

SEMIVOLATILE SIM

Acenaphthene	0.10 U	U	ug/L	0.10	0.011	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Acenaphthylene	0.10 U	U	ug/L	0.10	0.011	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Anthracene	0.023J	J	ug/L	0.10	0.017	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Benzo(a)anthracene	0.10 U	U	ug/L	0.10	0.017	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Benzo(a)pyrene	0.10 U	U	ug/L	0.10	0.020	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Benzo(b)fluoranthene	0.10 U	U	ug/L	0.10	0.020	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Benzo(g,h,i)perylene	0.10 U	U	ug/L	0.10	0.039	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Benzo(k)fluoranthene	0.10 U	U	ug/L	0.10	0.025	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Chrysene	0.10 U	U	ug/L	0.10	0.017	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Dibenzo(a,h)anthracene	0.071 U	U	ug/L	0.071	0.023	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Fluoranthene	0.019J	J	ug/L	0.10	0.018	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Fluorene	0.019J	J	ug/L	0.10	0.015	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Indeno(1,2,3-cd)pyrene	0.10 U	U	ug/L	0.10	0.042	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Naphthalene	0.060J	J	ug/L	0.10	0.038	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A

ANALYTICAL RESULTS

Workorder: 2147287 CBR012|MaltaRocketFuelArea/154

Lab ID: **2147287001** Date Collected: 5/26/2016 11:20 Matrix: NY Non-Potable Water

Sample ID: **EQ 1-Water** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Phenanthrene	0.024J	J	ug/L	0.10	0.020	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Pyrene	0.10 U	U	ug/L	0.10	0.015	8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Methylnapthalene-d10 (S)	83.7		%	29 - 112		8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
Fluoranthene-d10 (S)	94.5		%	45 - 130		8270 SIM	5/31/16 08:35	LEH	6/1/16 22:45	CGS	A
PCBs											
Aroclor-1016	0.51 U	U	ug/L	0.51	0.061	SW846 8082A	5/31/16 17:25	JSR	6/1/16 13:49	EGO	A
Aroclor-1221	0.51 U	U	ug/L	0.51	0.071	SW846 8082A	5/31/16 17:25	JSR	6/1/16 13:49	EGO	A
Aroclor-1232	0.51 U	U	ug/L	0.51	0.19	SW846 8082A	5/31/16 17:25	JSR	6/1/16 13:49	EGO	A
Aroclor-1242	0.51 U	U	ug/L	0.51	0.24	SW846 8082A	5/31/16 17:25	JSR	6/1/16 13:49	EGO	A
Aroclor-1248	0.51 U	U	ug/L	0.51	0.14	SW846 8082A	5/31/16 17:25	JSR	6/1/16 13:49	EGO	A
Aroclor-1254	0.51 U	U	ug/L	0.51	0.10	SW846 8082A	5/31/16 17:25	JSR	6/1/16 13:49	EGO	A
Aroclor-1260	0.51 U	U	ug/L	0.51	0.071	SW846 8082A	5/31/16 17:25	JSR	6/1/16 13:49	EGO	A
Aroclor-1262	0.51 U	U	ug/L	0.51	0.10	SW846 8082A	5/31/16 17:25	JSR	6/1/16 13:49	EGO	A
Aroclor-1268	0.51 U	U	ug/L	0.51	0.17	SW846 8082A	5/31/16 17:25	JSR	6/1/16 13:49	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	74		%	30 - 140		SW846 8082A	5/31/16 17:25	JSR	6/1/16 13:49	EGO	A
Tetrachloro-m-xylene (S)	71		%	30 - 133		SW846 8082A	5/31/16 17:25	JSR	6/1/16 13:49	EGO	A
PESTICIDES											
Aldrin	0.020 U	U	ug/L	0.020	0.0051	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
alpha-BHC	0.020 U	U	ug/L	0.020	0.0020	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
beta-BHC	0.020 U	U	ug/L	0.020	0.0081	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
delta-BHC	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
gamma-BHC	0.010J	J	ug/L	0.020	0.0030	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
alpha-Chlordane	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
gamma-Chlordane	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
4,4'-DDD	0.020 U	U	ug/L	0.020	0.0071	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
4,4'-DDE	0.020 U	U	ug/L	0.020	0.0071	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
4,4'-DDT	0.020 U	U	ug/L	0.020	0.0061	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Dieldrin	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Endosulfan I	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Endosulfan II	0.020 U	U	ug/L	0.020	0.0061	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Endosulfan Sulfate	0.020 U	U	ug/L	0.020	0.0040	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Endrin	0.020 U	U	ug/L	0.020	0.0081	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Endrin Aldehyde	0.020 U	U	ug/L	0.020	0.010	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Endrin Ketone	0.020 U	U	ug/L	0.020	0.0040	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147287 CBR012|MaltaRocketFuelArea/154

Lab ID: **2147287001** Date Collected: 5/26/2016 11:20 Matrix: NY Non-Potable Water

Sample ID: **EQ 1-Water** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Heptachlor	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Heptachlor Epoxide	0.020 U	U	ug/L	0.020	0.0040	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Methoxychlor	0.020 U	U	ug/L	0.020	0.0091	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Toxaphene	1.0 U	U	ug/L	1.0	0.19	SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	67		%	30 - 140		SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
Tetrachloro-m-xylene (S)	65.9		%	30 - 123		SW846 8081B	5/31/16 17:25	PDK	6/1/16 19:30	RWS	A
HERBICIDES											
2,4-D	0.20 U	U	ug/L	0.20	0.025	SW846 8151A	5/31/16 15:10	JSR	6/3/16 14:37	KJH	A
2,4-DB	0.30 U	U	ug/L	0.30	0.046	SW846 8151A	5/31/16 15:10	JSR	6/3/16 14:37	KJH	A
Dalapon	1.0 U	U	ug/L	1.0	0.036	SW846 8151A	5/31/16 15:10	JSR	6/3/16 14:37	KJH	A
Dicamba	0.20 U	U	ug/L	0.20	0.046	SW846 8151A	5/31/16 15:10	JSR	6/3/16 14:37	KJH	A
Dichloroprop	0.50 U	U	ug/L	0.50	0.055	SW846 8151A	5/31/16 15:10	JSR	6/3/16 14:37	KJH	A
Dinoseb	5.0 U	U	ug/L	5.0	0.14	SW846 8151A	5/31/16 15:10	JSR	6/3/16 14:37	KJH	A
Pentachlorophenol	0.20 U	U	ug/L	0.20	0.020	SW846 8151A	5/31/16 15:10	JSR	6/3/16 14:37	KJH	A
2,4,5-T	0.20 U	U	ug/L	0.20	0.039	SW846 8151A	5/31/16 15:10	JSR	6/3/16 14:37	KJH	A
2,4,5-TP	0.30 U	U	ug/L	0.30	0.023	SW846 8151A	5/31/16 15:10	JSR	6/3/16 14:37	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	138		%	14 - 172		SW846 8151A	5/31/16 15:10	JSR	6/3/16 14:37	KJH	A
WET CHEMISTRY											
Corrosivity as pH	6.23	2	pH_Units			SW846 9040C			5/28/16 21:42	MSA	K
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	6/5/16 14:00	MLM	6/5/16 22:03	LJF	K
Hexavalent Chromium	0.010 U	U,1	mg/L	0.010	0.0025	SW846 7196A			5/28/16 12:44	MSA	K
Sulfide, Reactive	6.2 U	U	ppm	6.2	1.2	SW846 7.3	6/5/16 14:00	MLM	6/5/16 16:30	MLM	K
METALS											
Aluminum, Total	0.11 U	U	mg/L	0.11	0.036	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Antimony, Total	0.022 U	U	mg/L	0.022	0.010	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Arsenic, Total	0.0090 U	U	mg/L	0.0090	0.0030	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Barium, Total	0.011 U	U	mg/L	0.011	0.0036	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Beryllium, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Cadmium, Total	0.0022 U	U	mg/L	0.0022	0.00073	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Calcium, Total	0.20		mg/L	0.11	0.036	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Chromium, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Cobalt, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Copper, Total	0.011 U	U	mg/L	0.011	0.0036	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5

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ANALYTICAL RESULTS

Workorder: 2147287 CBR012|MaltaRocketFuelArea/154

Lab ID: **2147287001** Date Collected: 5/26/2016 11:20 Matrix: NY Non-Potable Water

Sample ID: **EQ 1-Water** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Iron, Total	0.067 U	U	mg/L	0.067	0.022	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Lead, Total	0.0023J	J	mg/L	0.0067	0.0022	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Magnesium, Total	0.057J	J	mg/L	0.11	0.036	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Manganese, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Mercury, Total	0.00050 U	U	mg/L	0.00050	0.00017	SW846 7470A	6/3/16 08:30	MNP	6/3/16 11:24	MNP	K4
Nickel, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Potassium, Total	0.56 U	U	mg/L	0.56	0.18	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Selenium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Silver, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Sodium, Total	0.56 U	U	mg/L	0.56	0.18	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Thallium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Vanadium, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5
Zinc, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	6/5/16 13:15	JPS	6/6/16 01:48	TSS	K5

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147287 CBR012|MaltaRocketFuelArea/154

Lab ID: **2147287002** Date Collected: 5/26/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **Trip Blank** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		6/2/16 18:13	TMP	A
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/2/16 18:13	TMP	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/2/16 18:13	TMP	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/2/16 18:13	TMP	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/2/16 18:13	TMP	A
Bromomethane	1.0 U	U	ug/L	1.0	0.39	SW846 8260C		6/2/16 18:13	TMP	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/2/16 18:13	TMP	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/2/16 18:13	TMP	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/2/16 18:13	TMP	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/2/16 18:13	TMP	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/2/16 18:13	TMP	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/2/16 18:13	TMP	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/2/16 18:13	TMP	A
Chloromethane	0.32J	J	ug/L	1.0	0.31	SW846 8260C		6/2/16 18:13	TMP	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/2/16 18:13	TMP	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/2/16 18:13	TMP	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/2/16 18:13	TMP	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/2/16 18:13	TMP	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/2/16 18:13	TMP	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/2/16 18:13	TMP	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/2/16 18:13	TMP	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/2/16 18:13	TMP	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/2/16 18:13	TMP	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/2/16 18:13	TMP	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/2/16 18:13	TMP	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/2/16 18:13	TMP	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/2/16 18:13	TMP	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/2/16 18:13	TMP	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/2/16 18:13	TMP	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/2/16 18:13	TMP	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/2/16 18:13	TMP	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/2/16 18:13	TMP	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/2/16 18:13	TMP	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/2/16 18:13	TMP	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		6/2/16 18:13	TMP	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/2/16 18:13	TMP	A

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ANALYTICAL RESULTS

Workorder: 2147287 CBR012|MaltaRocketFuelArea/154

Lab ID: **2147287002** Date Collected: 5/26/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **Trip Blank** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/2/16 18:13	TMP	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C			6/2/16 18:13	TMP	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C			6/2/16 18:13	TMP	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/2/16 18:13	TMP	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C			6/2/16 18:13	TMP	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C			6/2/16 18:13	TMP	A
Toluene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C			6/2/16 18:13	TMP	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C			6/2/16 18:13	TMP	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C			6/2/16 18:13	TMP	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C			6/2/16 18:13	TMP	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			6/2/16 18:13	TMP	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/2/16 18:13	TMP	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/2/16 18:13	TMP	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/2/16 18:13	TMP	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			6/2/16 18:13	TMP	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/2/16 18:13	TMP	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			6/2/16 18:13	TMP	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.8		%	62 - 133	SW846 8260C			6/2/16 18:13	TMP	A
4-Bromofluorobenzene (S)	102		%	79 - 114	SW846 8260C			6/2/16 18:13	TMP	A
Dibromofluoromethane (S)	86.7		%	78 - 116	SW846 8260C			6/2/16 18:13	TMP	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260C			6/2/16 18:13	TMP	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2147287001	1	EQ 1-Water	SW846 7196A	Hexavalent Chromium
Analyte was analyzed past the 24 hour holding time.				
2147287001	2	EQ 1-Water	SW846 9040C	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE _

* 2 1 4 7 2 8 7 *

Project Name: Malta Rocket Fuel Area	Project Number: 154035
Project Manager: Brian Neumann	Report CC:
Company/Address: CB&I Environmental & Infrastructure Inc 13 British American Blvd Latham, NY 12110	
Phone #: (518) 785-2354	Email: brian.neumann@CBI.com
Sampler's Signature:	Sampler's Printed Name: Adam Norvelle

ANALYSIS REQUESTED (Include Method Number and Cont

PRESERVATIVE: 0 0 0 0 0 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs 8260C	GC/MS SVOAs 8270D	GC VOAs 8021 + 601/602	PESTICIDES 8081B	PCBs 8082A	METALS, TOTAL + Cr+6 (List in comments below)	METALS, DISSOLVED (List in comments below)	Herbicides 8151A	Reactivity / Corrosivity	
EQ1-WATER		5-26-16	1120	WATER	12	X	X		X	X	X		X	X	
TB1		—	—	WATER	3	X									

Preservative Key: 0. NONE; 1. HCL; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

	Y	N	Initials
Custody Seals Present?	✓		
(If present) Seals Intact?			
Received on Ice?	✓		
COC/Lbls Complete	✓		
Cont in Good Cond?	✓		
Correct Containers?	✓		
Correct Samp Vol?	✓		
Correct Preservation?	✓		
Headspace/Volatiles?		✓	

Cooler Temp: 1 °C

Cooler #: _____

Therm ID: 360

Ship Carrier: (FedEx) UPS DHL _____

Tracking #: 6470 8309 7493

SPECIAL INSTRUCTIONS/COMMENTS

Metals 6010C / 7471B (Mercury) and Cr^{+6} 7196A

See QAPP X

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS

_____ RUSH (SURCHARGES APPLY)

_____ 1 day _____ 2 day _____ 3 day

_____ 4 day X 5 day

REQUESTED REPORT DATE _____

REPORT REQUIREMENTS

_____ I. Results Only

_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

_____ III. Results + QC and Calibration Summaries

_____ IV. Data Validation Report with Raw Data

Edata _____ Yes _____ No

INVOICE INFORMATION

PO # _____

BILL TO: _____

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Adam Norvelle	Signature: D. Ayers	Signature: D. Ayers	Signature: Leah Graybeal	Signature:	Signature:
Printed Name:	Printed Name: DINA AYERS	Printed Name: DINA AYERS	Printed Name: Leah Graybeal	Printed Name:	Printed Name:
Firm: CB&I	Firm: ALS	Firm: ALS	Firm: ALS	Firm:	Firm:
Date/Time: 5-26-16/1534	Date/Time: 5/26/16 1534	Date/Time: 5/26/16 1700	Date/Time: 05/28/16 1000	Date/Time:	Date/Time:

Distribution: White - Lab Copy; Yellow - Return to Originator

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June 8, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2147286**
Purchase Order:		Workorder ID:	**CBR006|Malta Rocket Fuel Area**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Saturday, May 28, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2147286 CBR006|Malta Rocket Fuel Area

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2147286001	CS-LF012	Solid	5/27/2016 09:10	5/28/2016 10:00	Collected by Client

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2147286 CBR006|Malta Rocket Fuel Area

Sample Comments

Lab ID: 2147286001 **Sample ID:** CS-LF012 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8082 PCB analysis due to sample matrix interference. Reporting limits were adjusted accordingly.
This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

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ANALYTICAL RESULTS

Workorder: 2147286 CBR006|Malta Rocket Fuel Area

Lab ID: **2147286001** Date Collected: 5/27/2016 09:10 Matrix: Solid

Sample ID: **CS-LF012** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	700000		ug/kg	11800	3650	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Acetonitrile	23500 U	U	ug/kg	23500	2820	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Acrolein	29400 U	U	ug/kg	29400	3530	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Acrylonitrile	5880 U	U	ug/kg	5880	1410	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Benzene	2850		ug/kg	1180	271	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Benzyl Chloride	5880 U	U	ug/kg	5880	541	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Bromobenzene	1180 U	U	ug/kg	1180	377	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Bromochloromethane	1180 U	U	ug/kg	1180	377	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Bromodichloromethane	1180 U	U	ug/kg	1180	318	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Bromoform	1180 U	U	ug/kg	1180	471	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Bromomethane	1180 U	U	ug/kg	1180	459	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
2-Butanone	11800 U	U	ug/kg	11800	2120	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
tert-Butyl Alcohol	11800 U	U	ug/kg	11800	2590	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
n-Butylbenzene	2350 U	U	ug/kg	2350	706	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
tert-Butylbenzene	2350 U	U	ug/kg	2350	518	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
sec-Butylbenzene	19100		ug/kg	1180	365	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Carbon Disulfide	1180 U	U	ug/kg	1180	271	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Carbon Tetrachloride	1180 U	U	ug/kg	1180	365	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Chlorobenzene	1180 U	U	ug/kg	1180	224	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Chlorodibromomethane	1180 U	U	ug/kg	1180	530	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Chloroethane	843J	J	ug/kg	1180	388	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Chloroform	1020000		ug/kg	11800	2470	SW846 8260C	6/1/16 10:26	SYB	6/3/16 18:24	TMP	A
Chloromethane	684J	J	ug/kg	1180	365	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Chloroprene	1180 U	U	ug/kg	1180	577	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
3-Chloro-1-propene	1180 U	U	ug/kg	1180	306	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
o-Chlorotoluene	1180 U	U	ug/kg	1180	306	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
p-Chlorotoluene	1180 U	U	ug/kg	1180	388	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Cyclohexane	1180 U	U	ug/kg	1180	341	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,2-Dibromo-3-chloropropane	8240 U	U	ug/kg	8240	1770	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,2-Dibromoethane	1180 U	U	ug/kg	1180	330	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Dibromomethane	1180 U	U	ug/kg	1180	365	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,2-Dichlorobenzene	1180 U	U	ug/kg	1180	447	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,3-Dichlorobenzene	1180 U	U	ug/kg	1180	294	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,4-Dichlorobenzene	1180 U	U	ug/kg	1180	318	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Dichlorodifluoromethane	1180 U	U	ug/kg	1180	388	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,1-Dichloroethane	1180 U	U	ug/kg	1180	330	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147286 CBR006|Malta Rocket Fuel Area

Lab ID: **2147286001** Date Collected: 5/27/2016 09:10 Matrix: Solid

Sample ID: **CS-LF012** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	1180 U	U	ug/kg	1180	377	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,1-Dichloroethene	1180 U	U	ug/kg	1180	341	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
cis-1,2-Dichloroethene	1180 U	U	ug/kg	1180	377	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
trans-1,2-Dichloroethene	1180 U	U	ug/kg	1180	306	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,3-Dichloropropane	1180 U	U	ug/kg	1180	318	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
2,2-Dichloropropane	1180 U	U	ug/kg	1180	377	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,2-Dichloropropane	1180 U	U	ug/kg	1180	282	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,1-Dichloropropene	447J	J	ug/kg	1180	318	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
cis-1,3-Dichloropropene	1180 U	U	ug/kg	1180	365	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
trans-1,3-Dichloropropene	1180 U	U	ug/kg	1180	341	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,4-Dioxane	377000 U	U	ug/kg	377000	69300	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Ethyl Methacrylate	1180 U	U	ug/kg	1180	377	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Ethyl Acetate	2350 U	U	ug/kg	2350	377	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Ethylbenzene	29000		ug/kg	1180	400	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Freon 113	1180 U	U	ug/kg	1180	306	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
2-Hexanone	5880 U	U	ug/kg	5880	1530	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Isobutyl alcohol	88300 U	U	ug/kg	88300	14700	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Isopropylbenzene	18400		ug/kg	1180	259	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
p-Isopropyltoluene	34800		ug/kg	1180	377	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Methacrylonitrile	2350 U	U	ug/kg	2350	647	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Methyl methacrylate	3530 U	U	ug/kg	3530	588	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Methyl acetate	2350 U	U	ug/kg	2350	377	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Methyl cyclohexane	41100		ug/kg	1180	353	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Methyl t-Butyl Ether	1180 U	U	ug/kg	1180	388	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
4-Methyl-2-Pentanone(MIBK)	5880 U	U	ug/kg	5880	1770	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Methylene Chloride	33200	3	ug/kg	1180	530	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Naphthalene	601000		ug/kg	23500	4000	SW846 8260C	6/1/16 10:26	SYB	6/3/16 18:24	TMP	A
Propionitrile	11800 U	U	ug/kg	11800	3060	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
n-Propylbenzene	38500		ug/kg	1180	388	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Styrene	1180 U	U	ug/kg	1180	282	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,1,1,2-Tetrachloroethane	1180 U	U	ug/kg	1180	412	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,1,2,2-Tetrachloroethane	1180 U	U	ug/kg	1180	400	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Tetrachloroethene	1180 U	U	ug/kg	1180	412	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Toluene	30200		ug/kg	1180	271	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Total Xylenes	287000		ug/kg	3530	777	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,2,4-Trichlorobenzene	2350 U	U	ug/kg	2350	965	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,1,1-Trichloroethane	1180 U	U	ug/kg	1180	259	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,1,2-Trichloroethane	1180 U	U	ug/kg	1180	388	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147286 CBR006|Malta Rocket Fuel Area

Lab ID: **2147286001** Date Collected: 5/27/2016 09:10 Matrix: Solid

Sample ID: **CS-LF012** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	1180 U	U	ug/kg	1180	388	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Trichlorofluoromethane	1180 U	U	ug/kg	1180	282	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,2,3-Trichloropropane	2350 U	U	ug/kg	2350	706	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,2,4-Trimethylbenzene	530000		ug/kg	11800	2940	SW846 8260C	6/1/16 10:26	SYB	6/3/16 18:24	TMP	A
1,3,5-Trimethylbenzene	121000		ug/kg	1180	235	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Vinyl Acetate	5880 U	U	ug/kg	5880	1880	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Vinyl Chloride	1180 U	U	ug/kg	1180	353	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
o-Xylene	91600		ug/kg	1180	388	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
mp-Xylene	195000		ug/kg	2350	612	SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	102		%	71 - 146		SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
1,2-Dichloroethane-d4 (S)	96.6		%	71 - 146		SW846 8260C	6/1/16 10:26	SYB	6/3/16 18:24	TMP	A
4-Bromofluorobenzene (S)	124		%	46 - 138		SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
4-Bromofluorobenzene (S)	93.3		%	46 - 138		SW846 8260C	6/1/16 10:26	SYB	6/3/16 18:24	TMP	A
Dibromofluoromethane (S)	92.3		%	42 - 143		SW846 8260C	6/1/16 10:26	SYB	6/3/16 18:24	TMP	A
Dibromofluoromethane (S)	106		%	42 - 143		SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
Toluene-d8 (S)	105		%	54 - 141		SW846 8260C	6/1/16 10:26	SYB	6/3/16 18:24	TMP	A
Toluene-d8 (S)	103		%	54 - 141		SW846 8260C	6/1/16 10:26	JAH	6/1/16 12:14	SYB	A
SEMIVOLATILES											
Acenaphthene	2280 U	U	ug/kg	2280	273	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Acenaphthylene	2280 U	U	ug/kg	2280	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Acetophenone	4550 U	U	ug/kg	4550	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Aniline	9110 U	U	ug/kg	9110	683	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Anthracene	4390		ug/kg	2280	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Atrazine	4550 U	U	ug/kg	4550	501	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Benzaldehyde	9110 U	U	ug/kg	9110	774	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Benzidine	9110 U	U	ug/kg	9110	1460	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Benzo(a)anthracene	2280 U	U	ug/kg	2280	228	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Benzo(a)pyrene	2280 U	U	ug/kg	2280	182	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Benzo(b)fluoranthene	2280 U	U	ug/kg	2280	228	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Benzo(g,h,i)perylene	2280 U	U	ug/kg	2280	228	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Benzoic acid	24600 U	U	ug/kg	24600	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Benzo(k)fluoranthene	2280 U	U	ug/kg	2280	228	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Benzyl Alcohol	4550 U	U	ug/kg	4550	820	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Biphenyl	100000		ug/kg	4550	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
4-Bromophenyl-phenylether	4550 U	U	ug/kg	4550	410	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Butylbenzylphthalate	4550 U	U	ug/kg	4550	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147286 CBR006|Malta Rocket Fuel Area

Lab ID: **2147286001** Date Collected: 5/27/2016 09:10 Matrix: Solid

Sample ID: **CS-LF012** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Caprolactam	9110 U	U	ug/kg	9110	820	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Carbazole	4550 U	U	ug/kg	4550	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
4-Chloro-3-methylphenol	9110 U	U	ug/kg	9110	455	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
4-Chloroaniline	9110 U	U	ug/kg	9110	547	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
bis(2-Chloroethoxy)methane	4550 U	U	ug/kg	4550	410	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
bis(2-Chloroethyl)ether	4550 U	U	ug/kg	4550	592	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
bis(2-Chloroisopropyl)ether	4550 U	U	ug/kg	4550	683	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2-Chloronaphthalene	4550 U	U	ug/kg	4550	273	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2-Chlorophenol	9110 U	U	ug/kg	9110	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
4-Chlorophenyl-phenylether	4550 U	U	ug/kg	4550	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Chrysene	2280 U	U	ug/kg	2280	228	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
mp-Cresol	9110 U	U	ug/kg	9110	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
o-Cresol	9110 U	U	ug/kg	9110	501	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Di-n-Butylphthalate	4550 U	U	ug/kg	4550	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Di-n-Octylphthalate	4550 U	U	ug/kg	4550	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Dibenzo(a,h)anthracene	2280 U	U	ug/kg	2280	273	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Dibenzofuran	27900		ug/kg	4550	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
1,2-Dichlorobenzene	4550 U	U	ug/kg	4550	410	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
1,3-Dichlorobenzene	4550 U	U	ug/kg	4550	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
1,4-Dichlorobenzene	4550 U	U	ug/kg	4550	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
3,3-Dichlorobenzidine	9110 U	U	ug/kg	9110	1730	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2,4-Dichlorophenol	9110 U	U	ug/kg	9110	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2,6-Dichlorophenol	9110 U	U	ug/kg	9110	501	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Diethylphthalate	4550 U	U	ug/kg	4550	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Dimethoate	9110 U	U	ug/kg	9110	501	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2,4-Dimethylphenol	9110 U	U	ug/kg	9110	683	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Dimethylphthalate	4550 U	U	ug/kg	4550	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
1,2-Dinitrobenzene	4550 U	U	ug/kg	4550	865	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
1,4-Dinitrobenzene	4550 U	U	ug/kg	4550	638	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2,4-Dinitrophenol	9110 U	U	ug/kg	9110	1820	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2,4-Dinitrotoluene	4550 U	U	ug/kg	4550	410	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2,6-Dinitrotoluene	4550 U	U	ug/kg	4550	547	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Diphenylamine	4550 U	U	ug/kg	4550	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
1,2-Diphenylhydrazine	4550 U	U	ug/kg	4550	410	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
bis(2-Ethylhexyl)phthalate	4550 U	U	ug/kg	4550	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Fluoranthene	2280 U	U	ug/kg	2280	228	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Fluorene	34700		ug/kg	2280	273	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Hexachlorobenzene	4550 U	U	ug/kg	4550	501	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147286 CBR006|Malta Rocket Fuel Area

Lab ID: **2147286001** Date Collected: 5/27/2016 09:10 Matrix: Solid

Sample ID: **CS-LF012** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	4550 U	U	ug/kg	4550	455	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Hexachlorocyclopentadiene	9110 U	U	ug/kg	9110	501	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Hexachloroethane	4550 U	U	ug/kg	4550	410	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Indeno(1,2,3-cd)pyrene	2280 U	U	ug/kg	2280	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Isophorone	4550 U	U	ug/kg	4550	273	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2-Methyl-4,6-dinitrophenol	9110 U	U	ug/kg	9110	1180	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2-Methylnaphthalene	1500000		ug/kg	36400	1820	SW846 8270D	5/31/16 00:45	CMA	6/3/16 13:40	CGS	D
2-Naphthylamine	9110 U	U	ug/kg	9110	729	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Naphthalene	730000		ug/kg	18200	2190	SW846 8270D	5/31/16 00:45	CMA	6/3/16 13:40	CGS	D
2-Nitroaniline	9110 U	U	ug/kg	9110	547	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
3-Nitroaniline	9110 U	U	ug/kg	9110	911	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
4-Nitroaniline	9110 U	U	ug/kg	9110	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Nitrobenzene	4550 U	U	ug/kg	4550	547	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2-Nitrophenol	9110 U	U	ug/kg	9110	501	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
4-Nitrophenol	9110 U	U	ug/kg	9110	638	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
N-Nitrosodi-n-butylamine	4550 U	U	ug/kg	4550	501	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
N-Nitrosodiethylamine	4550 U	U	ug/kg	4550	592	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
N-Nitrosodimethylamine	4550 U	U	ug/kg	4550	683	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
N-Nitroso-di-n-propylamine	4550 U	U	ug/kg	4550	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
N-Nitrosodiphenylamine	4550 U	U	ug/kg	4550	364	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
N-Nitrosopyrrolidine	4550 U	U	ug/kg	4550	547	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Pentachlorobenzene	4550 U	U	ug/kg	4550	501	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Pentachlorophenol	9110 U	U	ug/kg	9110	1180	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Phenanthrene	23000		ug/kg	2280	228	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Phenol	9110 U	U	ug/kg	9110	455	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Pyrene	5870		ug/kg	2280	228	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Pyridine	9110 U	U	ug/kg	9110	820	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Resorcinol	4550 U	U	ug/kg	4550	638	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
1,2,4,5-Tetrachlorobenzene	4550 U	U	ug/kg	4550	319	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2,3,4,6-Tetrachlorophenol	9110 U	U	ug/kg	9110	547	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
1,2,4-Trichlorobenzene	4550 U	U	ug/kg	4550	273	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2,4,5-Trichlorophenol	9110 U	U	ug/kg	9110	547	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2,4,6-Trichlorophenol	9110 U	U	ug/kg	9110	547	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	65.4		%	19 - 132	SW846 8270D	5/31/16 00:45	CMA	6/3/16 13:40	CGS	D
2,4,6-Tribromophenol (S)	82.3		%	19 - 132	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2-Fluorobiphenyl (S)	84.5		%	40 - 110	SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2-Fluorobiphenyl (S)	94.2		%	40 - 110	SW846 8270D	5/31/16 00:45	CMA	6/3/16 13:40	CGS	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147286 CBR006|Malta Rocket Fuel Area

Lab ID: **2147286001** Date Collected: 5/27/2016 09:10 Matrix: Solid

Sample ID: **CS-LF012** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorophenol (S)	46.9		%	26 - 116		SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
2-Fluorophenol (S)	41.1		%	26 - 116		SW846 8270D	5/31/16 00:45	CMA	6/3/16 13:40	CGS	D
Nitrobenzene-d5 (S)	106		%	38 - 112		SW846 8270D	5/31/16 00:45	CMA	6/3/16 13:40	CGS	D
Nitrobenzene-d5 (S)	86.5		%	38 - 112		SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Phenol-d5 (S)	64.2		%	35 - 111		SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Phenol-d5 (S)	54.3		%	35 - 111		SW846 8270D	5/31/16 00:45	CMA	6/3/16 13:40	CGS	D
Terphenyl-d14 (S)	90.6		%	45 - 126		SW846 8270D	5/31/16 00:45	CMA	5/31/16 22:37	EGO	D
Terphenyl-d14 (S)	99.6		%	45 - 126		SW846 8270D	5/31/16 00:45	CMA	6/3/16 13:40	CGS	D
PCBs											
Total Polychlorinated Biphenyl	2.7 U	U	mg/kg	2.7	2.7	SW846 8082A	5/31/16 03:30	CMA	5/31/16 23:18	KJH	D
Aroclor-1016	2.7 U	U	mg/kg	2.7	0.50	SW846 8082A	5/31/16 03:30	CMA	5/31/16 23:18	KJH	D
Aroclor-1221	2.7 U	U	mg/kg	2.7	0.25	SW846 8082A	5/31/16 03:30	CMA	5/31/16 23:18	KJH	D
Aroclor-1232	2.7 U	U	mg/kg	2.7	0.50	SW846 8082A	5/31/16 03:30	CMA	5/31/16 23:18	KJH	D
Aroclor-1242	2.7 U	U	mg/kg	2.7	0.75	SW846 8082A	5/31/16 03:30	CMA	5/31/16 23:18	KJH	D
Aroclor-1248	2.7 U	U	mg/kg	2.7	0.50	SW846 8082A	5/31/16 03:30	CMA	5/31/16 23:18	KJH	D
Aroclor-1254	2.7 U	U	mg/kg	2.7	0.50	SW846 8082A	5/31/16 03:30	CMA	5/31/16 23:18	KJH	D
Aroclor-1260	2.7 U	U	mg/kg	2.7	0.50	SW846 8082A	5/31/16 03:30	CMA	5/31/16 23:18	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	74.2		%	49 - 115		SW846 8082A	5/31/16 03:30	CMA	5/31/16 23:18	KJH	D
Tetrachloro-m-xylene (S)	67.5		%	27 - 137		SW846 8082A	5/31/16 03:30	CMA	5/31/16 23:18	KJH	D
PESTICIDES											
Aldrin	70.4 U	U	ug/kg	70.4	22.8	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
alpha-BHC	70.4 U	U	ug/kg	70.4	6.2	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
beta-BHC	70.4 U	U	ug/kg	70.4	7.5	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
delta-BHC	70.4 U	U	ug/kg	70.4	5.4	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
gamma-BHC	334	2	ug/kg	70.4	5.8	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
alpha-Chlordane	70.4 U	U	ug/kg	70.4	7.5	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
gamma-Chlordane	70.4 U	U	ug/kg	70.4	12.0	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
4,4'-DDD	137 U	U	ug/kg	137	11.2	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
4,4'-DDE	137 U	U	ug/kg	137	18.6	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
4,4'-DDT	137 U	U	ug/kg	137	15.7	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Dieldrin	137 U	U	ug/kg	137	15.7	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Endosulfan I	70.4 U	U	ug/kg	70.4	8.7	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Endosulfan II	137 U	U	ug/kg	137	28.6	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Endosulfan Sulfate	137 U	U	ug/kg	137	9.1	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Endrin	137 U	U	ug/kg	137	9.9	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D

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ANALYTICAL RESULTS

Workorder: 2147286 CBR006|Malta Rocket Fuel Area

Lab ID: **2147286001** Date Collected: 5/27/2016 09:10 Matrix: Solid

Sample ID: **CS-LF012** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Endrin Aldehyde	137 U	U	ug/kg	137	14.9	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Endrin Ketone	137 U	U	ug/kg	137	19.0	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Heptachlor	70.4 U	U	ug/kg	70.4	7.0	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Heptachlor Epoxide	70.4 U	U	ug/kg	70.4	7.0	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Methoxychlor	137 U	U	ug/kg	137	18.2	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Toxaphene	1450 U	U	ug/kg	1450	240	SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	125		%	30 - 135		SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
Tetrachloro-m-xylene (S)	84.1		%	30 - 111		SW846 8081B	5/31/16 03:30	CMA	6/1/16 22:21	RWS	D
HERBICIDES											
2,4-D	80.8 U	U	ug/kg	80.8	31.4	SW846 8151A	5/31/16 02:00	VLM	5/31/16 16:24	KJH	D
2,4-DB	80.8 U	U	ug/kg	80.8	43.4	SW846 8151A	5/31/16 02:00	VLM	5/31/16 16:24	KJH	D
Dalapon	80.8 U	U	ug/kg	80.8	20.5	SW846 8151A	5/31/16 02:00	VLM	5/31/16 16:24	KJH	D
Dicamba	80.8 U	U	ug/kg	80.8	29.0	SW846 8151A	5/31/16 02:00	VLM	5/31/16 16:24	KJH	D
Dichloroprop	80.8 U	U	ug/kg	80.8	32.6	SW846 8151A	5/31/16 02:00	VLM	5/31/16 16:24	KJH	D
Dinoseb	201 U	U	ug/kg	201	41.0	SW846 8151A	5/31/16 02:00	VLM	5/31/16 16:24	KJH	D
4-Nitrophenol	80.8 U	U	ug/kg	80.8	27.7	SW846 8151A	5/31/16 02:00	VLM	5/31/16 16:24	KJH	D
2,4,5-T	80.8 U	U	ug/kg	80.8	33.8	SW846 8151A	5/31/16 02:00	VLM	5/31/16 16:24	KJH	D
2,4,5-TP	80.8 U	U	ug/kg	80.8	37.4	SW846 8151A	5/31/16 02:00	VLM	5/31/16 16:24	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	45.8		%	36 - 113		SW846 8151A	5/31/16 02:00	VLM	5/31/16 16:24	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	6/5/16 14:00	MLM	6/5/16 22:03	LJF	D
Hexavalent Chromium	2.4 U	U	mg/kg	2.4	0.46	SW846 7196A	6/3/16 17:00	MLM	6/4/16 19:30	MLM	D
Ignitability	Not ignitable	1				SW846 1030			6/2/16 11:00	SDL	D
Moisture	17.7		%	0.1	0.01	S2540G-11			5/28/16 22:17	JP	A
Sulfide, Reactive	6.2 U	U	ppm	6.2	1.2	SW846 7.3	6/5/16 14:00	MLM	6/5/16 16:30	MLM	D
Total Solids	82.3		%	0.1	0.01	S2540G-11			5/28/16 22:17	JP	A
METALS											
Aluminum, Total	80.9		mg/kg	46.7	15.6	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Antimony, Total	4.7J	J	mg/kg	9.3	3.1	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Arsenic, Total	9.3 U	U	mg/kg	9.3	3.1	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Barium, Total	221		mg/kg	4.7	1.6	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Beryllium, Total	4.7 U	U	mg/kg	4.7	1.6	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Cadmium, Total	2.3 U	U	mg/kg	2.3	0.78	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1

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ANALYTICAL RESULTS

Workorder: 2147286 CBR006|Malta Rocket Fuel Area

Lab ID: **2147286001** Date Collected: 5/27/2016 09:10 Matrix: Solid

Sample ID: **CS-LF012** Date Received: 5/28/2016 10:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Calcium, Total	72.7		mg/kg	46.7	15.6	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Chromium, Total	2.8J	J	mg/kg	4.7	1.6	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Cobalt, Total	2.6J	J	mg/kg	4.7	1.6	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Copper, Total	68.9		mg/kg	9.3	3.1	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Iron, Total	8450		mg/kg	46.7	15.6	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Lead, Total	15.4		mg/kg	9.3	3.1	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Magnesium, Total	16.2J	J	mg/kg	46.7	15.6	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Manganese, Total	58.4		mg/kg	4.7	1.6	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Mercury, Total	1.7		mg/kg	0.055	0.018	SW846 7471B	6/2/16 10:00	MNP	6/2/16 14:15	MNP	D2
Nickel, Total	9.3J	J	mg/kg	9.3	3.1	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Potassium, Total	234 U	U	mg/kg	234	78.0	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Selenium, Total	23.4 U	U	mg/kg	23.4	7.8	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Silver, Total	2.3 U	U	mg/kg	2.3	0.78	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Sodium, Total	234 U	U	mg/kg	234	78.0	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Thallium, Total	14.0 U	U	mg/kg	14.0	4.7	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Vanadium, Total	4.7 U	U	mg/kg	4.7	1.6	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1
Zinc, Total	26.9		mg/kg	9.3	3.1	SW846 6010C	6/1/16 12:10	JPS	6/3/16 04:26	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2147286001	1	CS-LF012	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2147286001	2	CS-LF012	SW846 8081B	gamma-BHC
The detection of this compound was confirmed on an alternate analytical column. The difference between the primary column and confirmation column was greater than 40% RPD.				
2147286001	3	CS-LF012	SW846 8260C	Methylene Chloride
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Methylene Chloride.				

Wednesday, June 08, 2016 5:23:27 PM
Page 13 of 13

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier: FED EX
Tracking #: 104708309 7508

2147286

Co. Name: CB&I Environmental & Infrastructure Inc
Contact (Report to): Brian Neumann Phone: (518) 785-2354
Address: 13 British American Blvd Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area/154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] Y brian.neumann@CBI.com
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs 8260C	SVOCs 8270D	PCBs 8082A	Pesticides 8081B	Herbicides 8151A	Reactivity/Ignitability	Total Metals 6010C/7471B (mercury)	Hexavalent Chromium 7196A	Moisture
						Enter Number of Containers Per Analysis								
1 CS-LF012		5-27-2016	0910	G	SL	3				3				1
2														
3														
4														
5														
6														
7														
8														

***Container Type: Encore / CG
***Container Size: 8oz / 8oz
***Preservative: — / N.

Performed by: Vista Analytical
Cooler Temp: 1
Therm. ID: 360
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
Custody seals Present?	N	N	N	N	N
(if present) Seals intact?	Y	Y	Y	Y	Y
Received on ice?	Y	Y	N	N	Y
COC/Labels complete/accurate?	Y	Y	Y	Y	Y
Container in good condition?	Y	Y	Y	Y	Y

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: *See QAPP

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature] / CB&I	5/26/16	1350	2 Brian McHugh	5/27/16	(5:30)
3 Brian McHugh	5/27/16	5:00	4 [signature]	5/28	1000
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ]
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
⇨ EDD/EDT VERSION No.

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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June 9, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2147928**
Purchase Order:		Workorder ID:	**CBR008|MALTANYSITE-WASTECHAR**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 1, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2147928001	CS-LF014	Other	5/31/2016 14:30	6/1/2016 08:54	Collected by Client
2147928002	TB2	NY Non-Potable Water	6/1/2016 08:54	6/1/2016 08:54	Collected by Client

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SAMPLE SUMMARY

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Sample Comments

Lab ID: 2147928001 **Sample ID:** CS-LF014 **Sample Type:** SAMPLE

This sample was collected in a soil jar for the volatile analysis. The sample was prepared by Method 5035 after the 48-hour holding time.

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ANALYTICAL RESULTS

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Lab ID: **2147928001** Date Collected: 5/31/2016 14:30 Matrix: Other

Sample ID: **CS-LF014** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	20000 U	U	ug/kg	20000	6200	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Benzene	6720		ug/kg	2000	460	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Bromochloromethane	2000 U	U	ug/kg	2000	640	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Bromodichloromethane	2000 U	U	ug/kg	2000	540	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Bromoform	2000 U	U	ug/kg	2000	800	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Bromomethane	2000 U	U	ug/kg	2000	780	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
2-Butanone	20000 U	U	ug/kg	20000	3600	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Carbon Disulfide	2000 U	U	ug/kg	2000	460	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Carbon Tetrachloride	1430J	J	ug/kg	2000	620	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Chlorobenzene	2000 U	U	ug/kg	2000	380	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Chlorodibromomethane	2000 U	U	ug/kg	2000	900	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Chloroethane	956J	J	ug/kg	2000	660	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Chloroform	6400		ug/kg	2000	420	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Chloromethane	2000 U	U	ug/kg	2000	620	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Cyclohexane	25200		ug/kg	2000	580	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,2-Dibromo-3-chloropropane	14000 U	U	ug/kg	14000	3000	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,2-Dibromoethane	2000 U	U	ug/kg	2000	560	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,2-Dichlorobenzene	2000 U	U	ug/kg	2000	760	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,3-Dichlorobenzene	2000 U	U	ug/kg	2000	500	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,4-Dichlorobenzene	2000 U	U	ug/kg	2000	540	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Dichlorodifluoromethane	2000 U	U	ug/kg	2000	660	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,1-Dichloroethane	2000 U	U	ug/kg	2000	560	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,2-Dichloroethane	2000 U	U	ug/kg	2000	640	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,1-Dichloroethene	2000 U	U	ug/kg	2000	580	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
cis-1,2-Dichloroethene	2000 U	U	ug/kg	2000	640	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
trans-1,2-Dichloroethene	2000 U	U	ug/kg	2000	520	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,2-Dichloropropane	2000 U	U	ug/kg	2000	480	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
cis-1,3-Dichloropropene	2000 U	U	ug/kg	2000	620	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
trans-1,3-Dichloropropene	2000 U	U	ug/kg	2000	580	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,4-Dioxane	640000 U	U	ug/kg	640000	118000	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Ethylbenzene	109000		ug/kg	2000	680	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Freon 113	2000 U	U	ug/kg	2000	520	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
2-Hexanone	10000 U	U	ug/kg	10000	2600	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Isopropylbenzene	73000		ug/kg	2000	440	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Methyl acetate	4000 U	U	ug/kg	4000	640	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Methyl cyclohexane	212000		ug/kg	2000	600	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2

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ANALYTICAL RESULTS

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Lab ID: **2147928001** Date Collected: 5/31/2016 14:30 Matrix: Other

Sample ID: **CS-LF014** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	2000 U	U	ug/kg	2000	660	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
4-Methyl-2-Pentanone(MIBK)	10000 U	U	ug/kg	10000	3000	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Methylene Chloride	1590J	J	ug/kg	2000	900	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Styrene	2000 U	U	ug/kg	2000	480	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,1,2,2-Tetrachloroethane	2000 U	U	ug/kg	2000	680	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Tetrachloroethene	2000 U	U	ug/kg	2000	700	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Toluene	127000		ug/kg	2000	460	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Total Xylenes	1040000		ug/kg	6000	1320	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,2,3-Trichlorobenzene	6000 U	U	ug/kg	6000	1860	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,2,4-Trichlorobenzene	4000 U	U	ug/kg	4000	1640	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,1,1-Trichloroethane	2000 U	U	ug/kg	2000	440	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
1,1,2-Trichloroethane	2000 U	U	ug/kg	2000	660	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Trichloroethene	2000 U	U	ug/kg	2000	660	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Trichlorofluoromethane	2000 U	U	ug/kg	2000	480	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Vinyl Chloride	2000 U	U	ug/kg	2000	600	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
o-Xylene	327000		ug/kg	2000	660	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
mp-Xylene	712000		ug/kg	4000	1040	SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	77.5		%	71 - 146		SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
4-Bromofluorobenzene (S)	110		%	46 - 138		SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Dibromofluoromethane (S)	79.4		%	42 - 143		SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
Toluene-d8 (S)	89.6		%	54 - 141		SW846 8260C	6/7/16 09:10	DD	6/7/16 21:15	DD	B2
SEMIVOLATILES											
Acenaphthene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Acenaphthylene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Anthracene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Benzo(a)anthracene	22600		ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Benzo(a)pyrene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Benzo(b)fluoranthene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Benzo(g,h,i)perylene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Benzo(k)fluoranthene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
4-Bromophenyl-phenylether	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Butylbenzylphthalate	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Carbazole	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
4-Chloro-3-methylphenol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
4-Chloroaniline	39500 U	U,1,2	ug/kg	39500	19700	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B

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ANALYTICAL RESULTS

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Lab ID: **2147928001** Date Collected: 5/31/2016 14:30 Matrix: Other

Sample ID: **CS-LF014** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
bis(2-Chloroethyl)ether	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
bis(2-Chloroisopropyl)ether	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2-Chloronaphthalene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2-Chlorophenol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
4-Chlorophenyl-phenylether	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Chrysene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
mp-Cresol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
o-Cresol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Di-n-Butylphthalate	10400J	J	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Di-n-Octylphthalate	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Dibenzo(a,h)anthracene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Dibenzofuran	48600		ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
1,2-Dichlorobenzene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
1,3-Dichlorobenzene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
1,4-Dichlorobenzene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
3,3-Dichlorobenzidine	59200 U	U	ug/kg	59200	29600	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2,4-Dichlorophenol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Diethylphthalate	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2,4-Dimethylphenol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Dimethylphthalate	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2,4-Dinitrophenol	118000 U	U	ug/kg	118000	59200	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2,4-Dinitrotoluene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2,6-Dinitrotoluene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
bis(2-Ethylhexyl)phthalate	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Fluoranthene	24300		ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Fluorene	69400		ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Hexachlorobenzene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Hexachlorobutadiene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Hexachlorocyclopentadiene	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Hexachloroethane	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Indeno(1,2,3-cd)pyrene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Isophorone	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2-Methyl-4,6-dinitrophenol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2-Methylnaphthalene	2490000		ug/kg	148000	74000	SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:27	DHF	B
Naphthalene	1340000		ug/kg	148000	74000	SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:27	DHF	B
2-Nitroaniline	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
3-Nitroaniline	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Lab ID: **2147928001** Date Collected: 5/31/2016 14:30 Matrix: Other

Sample ID: **CS-LF014** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Nitroaniline	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Nitrobenzene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2-Nitrophenol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
4-Nitrophenol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
N-Nitroso-di-n-propylamine	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
N-Nitrosodiphenylamine	17800 U	U	ug/kg	17800	8880	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Pentachlorophenol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Phenanthrene	83500		ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Phenol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Pyrene	56600		ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
1,2,4-Trichlorobenzene	14800 U	U	ug/kg	14800	7400	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2,4,5-Trichlorophenol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2,4,6-Trichlorophenol	29600 U	U	ug/kg	29600	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	94.3		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2,4,6-Tribromophenol (S)	86.7		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:27	DHF	B
2-Fluorobiphenyl (S)	96.7		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2-Fluorobiphenyl (S)	102		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:27	DHF	B
2-Fluorophenol (S)	95.7		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
2-Fluorophenol (S)	91.3		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:27	DHF	B
Nitrobenzene-d5 (S)	128		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Nitrobenzene-d5 (S)	148		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:27	DHF	B
Phenol-d5 (S)	95.6		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:27	DHF	B
Phenol-d5 (S)	88		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Terphenyl-d14 (S)	97.4		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:36	CGS	B
Terphenyl-d14 (S)	104		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:27	DHF	B
PESTICIDES											
Aldrin	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
alpha-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
beta-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
delta-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
gamma-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Chlordane	989 U	U	ug/kg	989		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
alpha-Chlordane	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
gamma-Chlordane	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
4,4'-DDD	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
4,4'-DDE	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Lab ID: **2147928001** Date Collected: 5/31/2016 14:30 Matrix: Other

Sample ID: **CS-LF014** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4,4'-DDT	49.4 U	U,4	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Dieldrin	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Endosulfan I	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Endosulfan II	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Endosulfan Sulfate	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Endrin	49.4 U	U,3	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Endrin Aldehyde	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Endrin Ketone	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Heptachlor	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Heptachlor Epoxide	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Methoxychlor	49.4 U	U,5	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Toxaphene	1980 U	U	ug/kg	1980		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	38.3		%	70 - 130		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
Tetrachloro-m-xylene (S)	54.6		%	70 - 130		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:35	RWS	B
PCBs											
Aroclor-1016	0.98 U	U	mg/kg	0.98	0.14	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:51	EGO	B
Aroclor-1221	0.98 U	U	mg/kg	0.98	0.39	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:51	EGO	B
Aroclor-1232	0.98 U	U	mg/kg	0.98	0.35	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:51	EGO	B
Aroclor-1242	0.98 U	U	mg/kg	0.98	0.33	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:51	EGO	B
Aroclor-1248	0.98 U	U	mg/kg	0.98	0.34	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:51	EGO	B
Aroclor-1254	0.98 U	U	mg/kg	0.98	0.28	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:51	EGO	B
Aroclor-1260	0.98 U	U	mg/kg	0.98	0.12	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:51	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	136		%	64 - 150		600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:51	EGO	B
Tetrachloro-m-xylene (S)	120		%	74 - 152		600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:51	EGO	B
HERBICIDES											
2,4-D	1960 U	U	ug/kg	1960		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:38	KJH	B
2,4-DB	1960 U	U	ug/kg	1960		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:38	KJH	B
Dalapon	1960 U	U	ug/kg	1960		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:38	KJH	B
Dicamba	1960 U	U	ug/kg	1960		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:38	KJH	B
Dichloroprop	1960 U	U	ug/kg	1960		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:38	KJH	B
Dinoseb	1960 U	U	ug/kg	1960		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:38	KJH	B
Pentachlorophenol	1960 U	U	ug/kg	1960		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:38	KJH	B
2,4,5-T	1960 U	U	ug/kg	1960		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:38	KJH	B
2,4,5-TP	1960 U	U	ug/kg	1960		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:38	KJH	B

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ANALYTICAL RESULTS

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Lab ID: **2147928001** Date Collected: 5/31/2016 14:30 Matrix: Other

Sample ID: **CS-LF014** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	18.9		%			SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:38	KJH	B
WET CHEMISTRY											
Corrosivity as pH	5.03	8	pH_Units			SW846 9045D			6/7/16 01:22	CF	
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	6/7/16 17:00	MLM	6/8/16 01:30	LJF	B
Flashpoint/Ignitability	See comment	6,7	Deg. F			SW-846 1010A			6/7/16 07:00	SDL	B
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.39	SW846 7196A	6/8/16 14:00	MLM	6/8/16 21:00	MLM	B
Sulfide, Reactive	6.2 U	U	ppm	6.2	1.2	SW846 7.3	6/7/16 17:00	MLM	6/7/16 20:15	MLM	B
METALS											
Aluminum, Total	12.2J	J	mg/kg	18.5	6.2	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Antimony, Total	3.7 U	U	mg/kg	3.7	1.2	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Arsenic, Total	3.7 U	U	mg/kg	3.7	1.2	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Barium, Total	5.5		mg/kg	1.9	0.62	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Beryllium, Total	1.9 U	U	mg/kg	1.9	0.62	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Cadmium, Total	0.93 U	U	mg/kg	0.93	0.31	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Calcium, Total	37.9		mg/kg	18.5	6.2	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Chromium, Total	1.9 U	U	mg/kg	1.9	0.62	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Cobalt, Total	1.9 U	U	mg/kg	1.9	0.62	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Copper, Total	2.0J	J	mg/kg	3.7	1.2	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Iron, Total	33.1		mg/kg	18.5	6.2	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Lead, Total	3.7 U	U	mg/kg	3.7	1.2	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Magnesium, Total	18.5 U	U	mg/kg	18.5	6.2	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Manganese, Total	1.9 U	U	mg/kg	1.9	0.62	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Mercury, Total	0.013 U	U	mg/kg	0.013	0.0040	SW846 7471B	6/8/16 09:30	MNP	6/8/16 11:14	MNP	B2
Nickel, Total	3.7 U	U	mg/kg	3.7	1.2	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Potassium, Total	92.6 U	U	mg/kg	92.6	30.9	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Selenium, Total	9.3 U	U	mg/kg	9.3	3.1	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Silver, Total	0.93 U	U	mg/kg	0.93	0.31	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Sodium, Total	92.6 U	U	mg/kg	92.6	30.9	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Thallium, Total	5.6 U	U	mg/kg	5.6	1.9	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Vanadium, Total	1.9 U	U	mg/kg	1.9	0.62	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1
Zinc, Total	1.8J	J	mg/kg	3.7	1.2	SW846 6010C	6/5/16 11:15	JPS	6/7/16 03:08	TSS	B1

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ANALYTICAL RESULTS

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Lab ID: **2147928001** Date Collected: 5/31/2016 14:30 Matrix: Other

Sample ID: **CS-LF014** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Lab ID: **2147928002** Date Collected: 6/1/2016 08:54 Matrix: NY Non-Potable Water

Sample ID: **TB2** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		6/7/16 14:59	TMP	A
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/7/16 14:59	TMP	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/7/16 14:59	TMP	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/7/16 14:59	TMP	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/7/16 14:59	TMP	A
Bromomethane	0.43J	J	ug/L	1.0	0.39	SW846 8260C		6/7/16 14:59	TMP	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/7/16 14:59	TMP	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/7/16 14:59	TMP	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/7/16 14:59	TMP	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/7/16 14:59	TMP	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/7/16 14:59	TMP	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/7/16 14:59	TMP	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/7/16 14:59	TMP	A
Chloromethane	0.56J	J	ug/L	1.0	0.31	SW846 8260C		6/7/16 14:59	TMP	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/7/16 14:59	TMP	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/7/16 14:59	TMP	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/7/16 14:59	TMP	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/7/16 14:59	TMP	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/7/16 14:59	TMP	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/7/16 14:59	TMP	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/7/16 14:59	TMP	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/7/16 14:59	TMP	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/7/16 14:59	TMP	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/7/16 14:59	TMP	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/7/16 14:59	TMP	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/7/16 14:59	TMP	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/7/16 14:59	TMP	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/7/16 14:59	TMP	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/7/16 14:59	TMP	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/7/16 14:59	TMP	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/7/16 14:59	TMP	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/7/16 14:59	TMP	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/7/16 14:59	TMP	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/7/16 14:59	TMP	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		6/7/16 14:59	TMP	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/7/16 14:59	TMP	A

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ANALYTICAL RESULTS

Workorder: 2147928 CBR008|MALTANYSITE-WASTECHARA

Lab ID: **2147928002** Date Collected: 6/1/2016 08:54 Matrix: NY Non-Potable Water

Sample ID: **TB2** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 14:59	TMP	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C			6/7/16 14:59	TMP	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C			6/7/16 14:59	TMP	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/7/16 14:59	TMP	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C			6/7/16 14:59	TMP	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C			6/7/16 14:59	TMP	A
Toluene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C			6/7/16 14:59	TMP	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C			6/7/16 14:59	TMP	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C			6/7/16 14:59	TMP	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C			6/7/16 14:59	TMP	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			6/7/16 14:59	TMP	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 14:59	TMP	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 14:59	TMP	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/7/16 14:59	TMP	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			6/7/16 14:59	TMP	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 14:59	TMP	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			6/7/16 14:59	TMP	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.4		%	62 - 133	SW846 8260C			6/7/16 14:59	TMP	A
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260C			6/7/16 14:59	TMP	A
Dibromofluoromethane (S)	88.5		%	78 - 116	SW846 8260C			6/7/16 14:59	TMP	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260C			6/7/16 14:59	TMP	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2147928001	1	CS-LF014	SW846 8270D	4-Chloroaniline
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 29.5 and the control limits were 50 to 200.				
2147928001	2	CS-LF014	SW846 8270D	4-Chloroaniline
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 35.7 and the control limits were 50 to 200.				
2147928001	3	CS-LF014	SW846 8081B	Endrin
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased low 27% in the bracketing CCV. Data for this compound may have been impacted.				
2147928001	4	CS-LF014	SW846 8081B	4,4'-DDT
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased low 22% in the bracketing CCV. Data for this compound may have been impacted.				
2147928001	5	CS-LF014	SW846 8081B	Methoxychlor
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased low 27% in the bracketing CCV. Data for this compound may have been impacted.				
2147928001	6	CS-LF014	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2147928001	7	CS-LF014	SW-846 1010A	Flashpoint/Ignitability
Sample did not flash up to 200 degrees F				
2147928001	8	CS-LF014	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				

Thursday, June 09, 2016 9:20:30 AM
Page 15 of 15

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

ALS Environmental

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2147928

Project Name: Malta Rocket Fuel Area	Project Number: 154035
Project Manager: Brian Neumann	Report CC:
Company/Address: CB&I Environmental & Infrastructure Inc. 13 British American Blvd Latham, NY 12110	
Phone #: (518) 785-2354	Email: brian.neumann@CBI.com
Sampler's Signature:	Sampler's Printed Name: Adam Norvelle

ANALYSIS REQUESTED (Include Method Number and Container)

PRESERVATIVE: 0 0 0 0 0 0 0 0 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs 8260C	GC/MS SVOAs 8270D	GC VOAs 8021 8011/602	PESTICIDES 8081B	PCBs 8082A	METALS, TOTAL 6010C + Cr+6	METALS, DISSOLVED (List in comments below)	Reactivity / Corrosivity / Ignitability 1030	Herbicides 8151A
CS-LF014		5-31-16	1430	GW	8	X	X		X	X	X		X	X	X
TB2		5-31-16	—	WATER		X(3)									

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other ____

REMARKS/ ALTERNATE DESCRIPTION

RCVD
2-40ml VOAs
2-250ml
4-1LAW
AT 6/1/16

	Y	N	Initials
Custody Seals Present			
(if present) Seals Intact			
Received on Ice?	✓		
COC/Lbls Complete	✓		
Cont in Good Cond?	✓		
Correct Containers?	✓		
Correct Samp Vol?	✓		
Correct Preservation?	✓		
Headspace/Volatiles?			

Cooler Temp: 2 °C
Cooler #:
Therm ID: TH360
Ship Carrier: FedEx UPS DHL
Tracking #: 6470 8309 7574

SPECIAL INSTRUCTIONS/COMMENTS
Metals 6010C/7471B (Mercury) and Cr^{+6} 7196A

See QAPP X

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
___ 4 day X 5 day

REQUESTED REPORT DATE: ____

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature: Brian McQuirk	Signature: Brian McQuirk	Signature: Jessica Smith	Signature	Signature
Printed Name: Adam Norvelle	Printed Name: BRIAN McQUIRK	Printed Name: BRIAN McQUIRK	Printed Name: JESSICA SMITH	Printed Name	Printed Name
Firm: CBI	Firm: A/S	Firm: A/S	Firm: ALS	Firm	Firm
Date/Time: 5-31-16/1625	Date/Time: 5/31/16 1625	Date/Time: 5/31/16 5:15	Date/Time: 6/1/16 0854	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

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June 9, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2147927**
Purchase Order:		Workorder ID:	**CBR007|MALTANYSITE-WASTECHAR**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 1, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2147927001	DUP1-Water	Other	5/31/2016 00:00	6/1/2016 08:54	Collected by Client
2147927002	TB3	NY Non-Potable Water	6/1/2016 08:54	6/1/2016 08:54	Collected by Client

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SAMPLE SUMMARY

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Sample Comments

Lab ID: 2147927001 **Sample ID:** DUP1-Water **Sample Type:** SAMPLE

This sample was collected in a soil jar for the volatile analysis. The sample was prepared by Method 5035 after the 48-hour holding time.

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ANALYTICAL RESULTS

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Lab ID: **2147927001** Date Collected: 5/31/2016 00:00 Matrix: Other

Sample ID: **DUP1-Water** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	28100 U	U	ug/kg	28100	8710	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Benzene	6800		ug/kg	2810	646	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Bromochloromethane	2810 U	U	ug/kg	2810	899	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Bromodichloromethane	2810 U	U	ug/kg	2810	758	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Bromoform	2810 U	U	ug/kg	2810	1120	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Bromomethane	2810 U	U	ug/kg	2810	1100	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
2-Butanone	28100 U	U	ug/kg	28100	5060	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Carbon Disulfide	2810 U	U	ug/kg	2810	646	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Carbon Tetrachloride	2810 U	U	ug/kg	2810	871	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Chlorobenzene	2810 U	U	ug/kg	2810	534	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Chlorodibromomethane	2810 U	U	ug/kg	2810	1260	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Chloroethane	1010J	J	ug/kg	2810	927	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Chloroform	7270		ug/kg	2810	590	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Chloromethane	2810 U	U	ug/kg	2810	871	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Cyclohexane	28600		ug/kg	2810	815	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,2-Dibromo-3-chloropropane	19700 U	U	ug/kg	19700	4210	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,2-Dibromoethane	2810 U	U	ug/kg	2810	787	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,2-Dichlorobenzene	2810 U	U	ug/kg	2810	1070	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,3-Dichlorobenzene	2810 U	U	ug/kg	2810	702	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,4-Dichlorobenzene	2810 U	U	ug/kg	2810	758	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Dichlorodifluoromethane	2810 U	U	ug/kg	2810	927	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,1-Dichloroethane	2810 U	U	ug/kg	2810	787	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,2-Dichloroethane	2810 U	U	ug/kg	2810	899	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,1-Dichloroethene	2810 U	U	ug/kg	2810	815	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
cis-1,2-Dichloroethene	2810 U	U	ug/kg	2810	899	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
trans-1,2-Dichloroethene	2810 U	U	ug/kg	2810	730	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,2-Dichloropropane	2810 U	U	ug/kg	2810	674	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
cis-1,3-Dichloropropene	2810 U	U	ug/kg	2810	871	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
trans-1,3-Dichloropropene	2810 U	U	ug/kg	2810	815	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,4-Dioxane	899000 U	U	ug/kg	899000	165000	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Ethylbenzene	121000		ug/kg	2810	955	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Freon 113	2810 U	U	ug/kg	2810	730	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
2-Hexanone	14000 U	U	ug/kg	14000	3650	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Isopropylbenzene	81000		ug/kg	2810	618	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Methyl acetate	5620 U	U	ug/kg	5620	899	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Methyl cyclohexane	243000		ug/kg	2810	843	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2

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ANALYTICAL RESULTS

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Lab ID: **2147927001** Date Collected: 5/31/2016 00:00 Matrix: Other

Sample ID: **DUP1-Water** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	2810 U	U	ug/kg	2810	927	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
4-Methyl-2-Pentanone(MIBK)	14000 U	U	ug/kg	14000	4210	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Methylene Chloride	2730J	J	ug/kg	2810	1260	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Styrene	2810 U	U	ug/kg	2810	674	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,1,2,2-Tetrachloroethane	2810 U	U	ug/kg	2810	955	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Tetrachloroethene	2810 U	U	ug/kg	2810	983	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Toluene	139000		ug/kg	2810	646	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Total Xylenes	1160000		ug/kg	8430	1850	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,2,3-Trichlorobenzene	8430 U	U	ug/kg	8430	2610	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,2,4-Trichlorobenzene	5620 U	U	ug/kg	5620	2300	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,1,1-Trichloroethane	2810 U	U	ug/kg	2810	618	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
1,1,2-Trichloroethane	2810 U	U	ug/kg	2810	927	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Trichloroethene	2810 U	U	ug/kg	2810	927	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Trichlorofluoromethane	2810 U	U	ug/kg	2810	674	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Vinyl Chloride	2810 U	U	ug/kg	2810	843	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
o-Xylene	366000		ug/kg	2810	927	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
mp-Xylene	795000		ug/kg	5620	1460	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	77.7		%	71 - 146	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
4-Bromofluorobenzene (S)	111		%	46 - 138	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Dibromofluoromethane (S)	78.9		%	42 - 143	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2
Toluene-d8 (S)	88.6		%	54 - 141	SW846 8260C	6/7/16 09:06	DD	6/7/16 20:52	DD	B2

SEMIVOLATILES

Acenaphthene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Acenaphthylene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Anthracene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Benzo(a)anthracene	19000		ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Benzo(a)pyrene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Benzo(b)fluoranthene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Benzo(g,h,i)perylene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Benzo(k)fluoranthene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
4-Bromophenyl-phenylether	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Butylbenzylphthalate	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Carbazole	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
4-Chloro-3-methylphenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
4-Chloroaniline	39900 U	U,1,2	ug/kg	39900	19900	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Lab ID: **2147927001** Date Collected: 5/31/2016 00:00 Matrix: Other

Sample ID: **DUP1-Water** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
bis(2-Chloroethyl)ether	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
bis(2-Chloroisopropyl)ether	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2-Chloronaphthalene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2-Chlorophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
4-Chlorophenyl-phenylether	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Chrysene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
mp-Cresol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
o-Cresol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Di-n-Butylphthalate	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Di-n-Octylphthalate	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Dibenzo(a,h)anthracene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Dibenzofuran	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
1,2-Dichlorobenzene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
1,3-Dichlorobenzene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
1,4-Dichlorobenzene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
3,3-Dichlorobenzidine	59800 U	U	ug/kg	59800	29900	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2,4-Dichlorophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Diethylphthalate	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2,4-Dimethylphenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Dimethylphthalate	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2,4-Dinitrophenol	120000 U	U	ug/kg	120000	59800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2,4-Dinitrotoluene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2,6-Dinitrotoluene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
bis(2-Ethylhexyl)phthalate	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Fluoranthene	23200		ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Fluorene	70700		ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Hexachlorobenzene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Hexachlorobutadiene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Hexachlorocyclopentadiene	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Hexachloroethane	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Indeno(1,2,3-cd)pyrene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Isophorone	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2-Methyl-4,6-dinitrophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2-Methylnaphthalene	2520000		ug/kg	150000	74800	SW846 8270D	6/7/16 09:40	MPP	6/8/16 23:28	DHF	B
Naphthalene	1320000		ug/kg	150000	74800	SW846 8270D	6/7/16 09:40	MPP	6/8/16 23:28	DHF	B
2-Nitroaniline	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
3-Nitroaniline	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Lab ID: **2147927001** Date Collected: 5/31/2016 00:00 Matrix: Other

Sample ID: **DUP1-Water** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Nitroaniline	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Nitrobenzene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2-Nitrophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
4-Nitrophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
N-Nitroso-di-n-propylamine	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
N-Nitrosodiphenylamine	17900 U	U	ug/kg	17900	8970	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Pentachlorophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Phenanthrene	86100		ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Phenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Pyrene	57700		ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
1,2,4-Trichlorobenzene	15000 U	U	ug/kg	15000	7480	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2,4,5-Trichlorophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2,4,6-Trichlorophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	89.1		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/8/16 23:28	DHF	B
2,4,6-Tribromophenol (S)	94.9		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2-Fluorobiphenyl (S)	99.8		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/8/16 23:28	DHF	B
2-Fluorobiphenyl (S)	98.1		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
2-Fluorophenol (S)	92.3		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/8/16 23:28	DHF	B
2-Fluorophenol (S)	96.6		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Nitrobenzene-d5 (S)	124		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Nitrobenzene-d5 (S)	136		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/8/16 23:28	DHF	B
Phenol-d5 (S)	93.1		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Phenol-d5 (S)	101		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/8/16 23:28	DHF	B
Terphenyl-d14 (S)	99.2		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 15:11	CGS	B
Terphenyl-d14 (S)	98.9		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/8/16 23:28	DHF	B
PESTICIDES											
Aldrin	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
alpha-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
beta-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
delta-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
gamma-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Chlordane	987 U	U	ug/kg	987		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
alpha-Chlordane	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
gamma-Chlordane	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
4,4'-DDD	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
4,4'-DDE	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B

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ANALYTICAL RESULTS

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Lab ID: **2147927001** Date Collected: 5/31/2016 00:00 Matrix: Other

Sample ID: **DUP1-Water** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4,4'-DDT	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Dieldrin	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Endosulfan I	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Endosulfan II	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Endosulfan Sulfate	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Endrin	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Endrin Aldehyde	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Endrin Ketone	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Heptachlor	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Heptachlor Epoxide	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Methoxychlor	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Toxaphene	1970 U	U	ug/kg	1970		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	55		%	70 - 130		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
Tetrachloro-m-xylene (S)	76.2		%	70 - 130		SW846 8081B	6/7/16 09:40	MPP	6/8/16 11:54	RWS	B
PCBs											
Aroclor-1016	0.98 U	U	mg/kg	0.98	0.14	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:34	EGO	B
Aroclor-1221	0.98 U	U	mg/kg	0.98	0.39	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:34	EGO	B
Aroclor-1232	0.98 U	U	mg/kg	0.98	0.35	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:34	EGO	B
Aroclor-1242	0.98 U	U	mg/kg	0.98	0.33	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:34	EGO	B
Aroclor-1248	0.98 U	U	mg/kg	0.98	0.34	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:34	EGO	B
Aroclor-1254	0.98 U	U	mg/kg	0.98	0.28	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:34	EGO	B
Aroclor-1260	0.98 U	U	mg/kg	0.98	0.12	600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:34	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	117		%	64 - 150		600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:34	EGO	B
Tetrachloro-m-xylene (S)	127		%	74 - 152		600/4-81-045	6/3/16 10:02	CHS	6/3/16 18:34	EGO	B
HERBICIDES											
2,4-D	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:01	KJH	B
2,4-DB	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:01	KJH	B
Dalapon	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:01	KJH	B
Dicamba	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:01	KJH	B
Dichloroprop	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:01	KJH	B
Dinoseb	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:01	KJH	B
Pentachlorophenol	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:01	KJH	B
2,4,5-T	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:01	KJH	B
2,4,5-TP	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:01	KJH	B

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ANALYTICAL RESULTS

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Lab ID: **2147927001** Date Collected: 5/31/2016 00:00 Matrix: Other

Sample ID: **DUP1-Water** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	38.9		%			SW846 8151A	6/7/16 09:40	MPP	6/8/16 11:01	KJH	B
WET CHEMISTRY											
Corrosivity as pH	5.04	5	pH_Units			SW846 9045D			6/7/16 01:17	MSA	
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	6/7/16 17:00	MLM	6/8/16 01:30	LJF	B
Flashpoint/Ignitability	See comment	3,4	Deg. F			SW-846 1010A			6/7/16 07:00	SDL	B
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.39	SW846 7196A	6/8/16 13:00	MLM	6/8/16 21:00	MLM	B
Sulfide, Reactive	8.4		ppm	6.2	1.2	SW846 7.3	6/7/16 17:00	MLM	6/7/16 20:15	MLM	B
METALS											
Aluminum, Total	10.6J	J	mg/kg	19.2	6.4	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Antimony, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Arsenic, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Barium, Total	3.2		mg/kg	1.9	0.64	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Beryllium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Cadmium, Total	0.96 U	U	mg/kg	0.96	0.32	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Calcium, Total	12.4J	J	mg/kg	19.2	6.4	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Chromium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Cobalt, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Copper, Total	2.4J	J	mg/kg	3.8	1.3	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Iron, Total	30.7		mg/kg	19.2	6.4	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Lead, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Magnesium, Total	19.2 U	U	mg/kg	19.2	6.4	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Manganese, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Mercury, Total	0.012 U	U	mg/kg	0.012	0.0040	SW846 7471B	6/8/16 09:30	MNP	6/8/16 11:02	MNP	B2
Nickel, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Potassium, Total	96.2 U	U	mg/kg	96.2	32.1	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Selenium, Total	9.6 U	U	mg/kg	9.6	3.2	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Silver, Total	0.96 U	U	mg/kg	0.96	0.32	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Sodium, Total	96.2 U	U	mg/kg	96.2	32.1	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Thallium, Total	5.8 U	U	mg/kg	5.8	1.9	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Vanadium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1
Zinc, Total	2.8J	J	mg/kg	3.8	1.3	SW846 6010C	6/5/16 11:15	JPS	6/7/16 02:58	TSS	B1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Lab ID: **2147927001** Date Collected: 5/31/2016 00:00 Matrix: Other

Sample ID: **DUP1-Water** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Lab ID: **2147927002** Date Collected: 6/1/2016 08:54 Matrix: NY Non-Potable Water

Sample ID: **TB3** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		6/7/16 14:42	TMP	A
Benzene	0.27J	J	ug/L	1.0	0.23	SW846 8260C		6/7/16 14:42	TMP	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/7/16 14:42	TMP	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/7/16 14:42	TMP	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/7/16 14:42	TMP	A
Bromomethane	0.53J	J	ug/L	1.0	0.39	SW846 8260C		6/7/16 14:42	TMP	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/7/16 14:42	TMP	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/7/16 14:42	TMP	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/7/16 14:42	TMP	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/7/16 14:42	TMP	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/7/16 14:42	TMP	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/7/16 14:42	TMP	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/7/16 14:42	TMP	A
Chloromethane	0.47J	J	ug/L	1.0	0.31	SW846 8260C		6/7/16 14:42	TMP	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/7/16 14:42	TMP	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/7/16 14:42	TMP	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/7/16 14:42	TMP	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/7/16 14:42	TMP	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/7/16 14:42	TMP	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/7/16 14:42	TMP	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/7/16 14:42	TMP	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/7/16 14:42	TMP	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/7/16 14:42	TMP	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/7/16 14:42	TMP	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/7/16 14:42	TMP	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/7/16 14:42	TMP	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/7/16 14:42	TMP	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/7/16 14:42	TMP	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/7/16 14:42	TMP	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/7/16 14:42	TMP	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/7/16 14:42	TMP	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/7/16 14:42	TMP	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/7/16 14:42	TMP	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/7/16 14:42	TMP	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		6/7/16 14:42	TMP	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/7/16 14:42	TMP	A

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ANALYTICAL RESULTS

Workorder: 2147927 CBR007|MALTANYSITE-WASTECHARA

Lab ID: **2147927002** Date Collected: 6/1/2016 08:54 Matrix: NY Non-Potable Water

Sample ID: **TB3** Date Received: 6/1/2016 08:54

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 14:42	TMP	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C			6/7/16 14:42	TMP	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C			6/7/16 14:42	TMP	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/7/16 14:42	TMP	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C			6/7/16 14:42	TMP	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C			6/7/16 14:42	TMP	A
Toluene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C			6/7/16 14:42	TMP	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C			6/7/16 14:42	TMP	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C			6/7/16 14:42	TMP	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C			6/7/16 14:42	TMP	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			6/7/16 14:42	TMP	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 14:42	TMP	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 14:42	TMP	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/7/16 14:42	TMP	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			6/7/16 14:42	TMP	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 14:42	TMP	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			6/7/16 14:42	TMP	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	93.9		%	62 - 133	SW846 8260C			6/7/16 14:42	TMP	A
4-Bromofluorobenzene (S)	97.6		%	79 - 114	SW846 8260C			6/7/16 14:42	TMP	A
Dibromofluoromethane (S)	88.2		%	78 - 116	SW846 8260C			6/7/16 14:42	TMP	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260C			6/7/16 14:42	TMP	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2147927001	1	DUP1-Water	SW846 8270D	4-Chloroaniline
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 29.5 and the control limits were 50 to 200.				
2147927001	2	DUP1-Water	SW846 8270D	4-Chloroaniline
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 35.7 and the control limits were 50 to 200.				
2147927001	3	DUP1-Water	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2147927001	4	DUP1-Water	SW-846 1010A	Flashpoint/Ignitability
Sample did not flash up to 200 degrees F				
2147927001	5	DUP1-Water	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier: FedEx
Tracking #: 6420 8309 7514

2147927

Co. Name: CBI Environmental & Infrastructure Inc
Contact (Report to): Brian Neumann Phone (518) 785-2354
Address: 13 British American Blvd Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Raket Fuel Area / 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] Y brian.neumann@CBI.com
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	***Container Type	CG	AG	AG	AG	PL	PL	AG		
						***Container Size	40ml	1L	1L	1L	1	1	1L		
						*** Preservative	None								
							ANALYSES/METHOD REQUESTED								
							VOCs 8260C	SVOCs 8270D	Pesticides 8081B	PCBs 8082A	Metals (Total) 6010C/7471B and Cr+6 7196	Reactivity/Corrosivity	Ignitability 1030	Herbicides 8151A	
							Enter Number of Containers Per Analysis								
1 DUP1-WATER		5-31-16	—	G	OL		X	X	X	X	X	X	X	X	
2 TB3		5-31-16	—	C	—		X								
3															
4	FILTERED for DUP1														
5	4-1LAW														
6	3-40ML VOA														
7	2-P500ML														
8	AS 6/1/16														

Receipt Information (completed by Sample Receiving)
Performed by:
Cooler Temp: 3
Therm. ID: IR36
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
Y or N	Y N	Y N	Y N	Y N	

	Custody seals Present?	(If present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
Y or N	Y N	Y N	Y N	Y N	Y N

SAMPLED BY (Please Print): Adam Norvelle

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 CBI	5-31-16	1625	2 Bryan McClintock	5/31/16	1625
3 Bryan McClintock	5/31/16	5:15	4	6/1/16	0854
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ]
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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June 8, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2147996**
Purchase Order:		Workorder ID:	**CBR009|MALTANYSITE-WASTECHAR**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Thursday, June 2, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 2147996 CBR009|MALTANYSITE-WASTECHARA

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2147996001	CS-LF020	Solid	6/1/2016 14:00	6/2/2016 08:57	Collected by Client

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2147996 CBR009|MALTANYSITE-WASTECHARA

Sample Comments

Lab ID: 2147996001 **Sample ID:** CS-LF020 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8082 PCB analysis due to sample matrix interference. Reporting limits were adjusted accordingly.
This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147996 CBR009|MALTANYSITE-WASTECHARA

Lab ID: **2147996001** Date Collected: 6/1/2016 14:00 Matrix: Solid

Sample ID: **CS-LF020** Date Received: 6/2/2016 08:57

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	13700		ug/kg	5680	1760	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Acetonitrile	11400 U	U	ug/kg	11400	1360	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Acrolein	14200 U	U	ug/kg	14200	1700	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Acrylonitrile	2840 U	U	ug/kg	2840	682	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Benzene	568 U	U	ug/kg	568	131	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Benzyl Chloride	2840 U	U,2	ug/kg	2840	261	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Bromobenzene	568 U	U	ug/kg	568	182	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Bromochloromethane	568 U	U	ug/kg	568	182	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Bromodichloromethane	568 U	U	ug/kg	568	153	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Bromoform	568 U	U	ug/kg	568	227	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Bromomethane	568 U	U	ug/kg	568	222	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
2-Butanone	5680 U	U	ug/kg	5680	1020	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
tert-Butyl Alcohol	5680 U	U	ug/kg	5680	1250	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
n-Butylbenzene	1140 U	U	ug/kg	1140	341	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
tert-Butylbenzene	1140 U	U	ug/kg	1140	250	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
sec-Butylbenzene	3660		ug/kg	1140	176	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Carbon Disulfide	568 U	U	ug/kg	568	131	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Carbon Tetrachloride	568 U	U	ug/kg	568	176	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Chlorobenzene	568 U	U	ug/kg	568	108	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Chlorodibromomethane	568 U	U	ug/kg	568	256	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Chloroethane	568 U	U	ug/kg	568	188	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Chloroform	432J	J	ug/kg	568	119	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Chloromethane	568 U	U	ug/kg	568	176	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Chloroprene	568 U	U	ug/kg	568	278	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
3-Chloro-1-propene	568 U	U	ug/kg	568	148	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
o-Chlorotoluene	568 U	U	ug/kg	568	148	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
p-Chlorotoluene	568 U	U	ug/kg	568	188	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Cyclohexane	568 U	U	ug/kg	568	165	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,2-Dibromo-3-chloropropane	3980 U	U	ug/kg	3980	852	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,2-Dibromoethane	568 U	U	ug/kg	568	159	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Dibromomethane	568 U	U	ug/kg	568	176	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,2-Dichlorobenzene	568 U	U	ug/kg	568	216	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,3-Dichlorobenzene	568 U	U	ug/kg	568	142	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,4-Dichlorobenzene	568 U	U	ug/kg	568	153	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Dichlorodifluoromethane	568 U	U	ug/kg	568	188	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,1-Dichloroethane	568 U	U	ug/kg	568	159	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A

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ANALYTICAL RESULTS

Workorder: 2147996 CBR009|MALTANYSITE-WASTECHARA

Lab ID: **2147996001** Date Collected: 6/1/2016 14:00 Matrix: Solid

Sample ID: **CS-LF020** Date Received: 6/2/2016 08:57

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	568 U	U	ug/kg	568	182	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,1-Dichloroethene	568 U	U	ug/kg	568	165	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
cis-1,2-Dichloroethene	568 U	U	ug/kg	568	182	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
trans-1,2-Dichloroethene	568 U	U	ug/kg	568	148	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,3-Dichloropropane	568 U	U	ug/kg	568	153	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
2,2-Dichloropropane	568 U	U	ug/kg	568	182	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,2-Dichloropropane	568 U	U	ug/kg	568	136	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,1-Dichloropropene	568 U	U	ug/kg	568	153	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
cis-1,3-Dichloropropene	568 U	U	ug/kg	568	176	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
trans-1,3-Dichloropropene	568 U	U	ug/kg	568	165	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,4-Dioxane	182000 U	U	ug/kg	182000	33500	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Ethyl Methacrylate	568 U	U	ug/kg	568	182	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Ethyl Acetate	1140 U	U	ug/kg	1140	182	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Ethylbenzene	2480		ug/kg	568	193	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Freon 113	568 U	U	ug/kg	568	148	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
2-Hexanone	2840 U	U	ug/kg	2840	739	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Isobutyl alcohol	42600 U	U	ug/kg	42600	7100	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Isopropylbenzene	3170		ug/kg	568	125	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
p-Isopropyltoluene	6580		ug/kg	1140	182	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Methacrylonitrile	1140 U	U	ug/kg	1140	313	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Methyl methacrylate	1700 U	U	ug/kg	1700	284	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Methyl acetate	1140 U	U	ug/kg	1140	182	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Methyl cyclohexane	485J	J	ug/kg	568	170	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Methyl t-Butyl Ether	568 U	U	ug/kg	568	188	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
4-Methyl-2-Pentanone(MIBK)	2840 U	U	ug/kg	2840	852	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Methylene Chloride	411J	J	ug/kg	568	256	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Naphthalene	44000		ug/kg	1140	193	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Propionitrile	5680 U	U	ug/kg	5680	1480	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
n-Propylbenzene	6790		ug/kg	568	188	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Styrene	568 U	U	ug/kg	568	136	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,1,1,2-Tetrachloroethane	568 U	U	ug/kg	568	199	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,1,2,2-Tetrachloroethane	568 U	U	ug/kg	568	193	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Tetrachloroethene	568 U	U	ug/kg	568	199	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Toluene	678		ug/kg	568	131	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Total Xylenes	31400		ug/kg	1700	375	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,2,4-Trichlorobenzene	1140 U	U	ug/kg	1140	466	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,1,1-Trichloroethane	568 U	U	ug/kg	568	125	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,1,2-Trichloroethane	568 U	U	ug/kg	568	188	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A

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ANALYTICAL RESULTS

Workorder: 2147996 CBR009|MALTANYSITE-WASTECHARA

Lab ID: **2147996001** Date Collected: 6/1/2016 14:00 Matrix: Solid

Sample ID: **CS-LF020** Date Received: 6/2/2016 08:57

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	568 U	U	ug/kg	568	188	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Trichlorofluoromethane	568 U	U	ug/kg	568	136	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,2,3-Trichloropropane	1140 U	U	ug/kg	1140	341	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,2,4-Trimethylbenzene	63400		ug/kg	568	142	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
1,3,5-Trimethylbenzene	21600		ug/kg	568	114	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Vinyl Acetate	2840 U	U	ug/kg	2840	909	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Vinyl Chloride	568 U	U	ug/kg	568	170	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
o-Xylene	11800		ug/kg	568	188	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
mp-Xylene	19600		ug/kg	1140	295	SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	90.6		%	71 - 146		SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
4-Bromofluorobenzene (S)	85.4		%	46 - 138		SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Dibromofluoromethane (S)	86.9		%	42 - 143		SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
Toluene-d8 (S)	89.8		%	54 - 141		SW846 8260C	6/2/16 20:17	JAH	6/7/16 20:05	DD	A
SEMIVOLATILES											
Acenaphthene	4670 U	U	ug/kg	4670	560	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Acenaphthylene	4670 U	U	ug/kg	4670	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Acetophenone	9340 U	U	ug/kg	9340	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Aniline	18700 U	U	ug/kg	18700	1400	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Anthracene	4670 U	U	ug/kg	4670	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Atrazine	9340 U	U	ug/kg	9340	1030	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Benzaldehyde	18700 U	U	ug/kg	18700	1590	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Benzidine	18700 U	U	ug/kg	18700	2990	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Benzo(a)anthracene	4670 U	U	ug/kg	4670	467	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Benzo(a)pyrene	4670 U	U	ug/kg	4670	374	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Benzo(b)fluoranthene	4670 U	U	ug/kg	4670	467	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Benzo(g,h,i)perylene	4670 U	U	ug/kg	4670	467	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Benzoic acid	50400 U	U	ug/kg	50400	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Benzo(k)fluoranthene	4670 U	U	ug/kg	4670	467	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Benzyl Alcohol	9340 U	U	ug/kg	9340	1680	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Biphenyl	22800		ug/kg	9340	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
4-Bromophenyl-phenylether	9340 U	U	ug/kg	9340	841	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Butylbenzylphthalate	9340 U	U	ug/kg	9340	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Caprolactam	18700 U	U	ug/kg	18700	1680	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Carbazole	9340 U	U	ug/kg	9340	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
4-Chloro-3-methylphenol	18700 U	U	ug/kg	18700	934	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
4-Chloroaniline	18700 U	U	ug/kg	18700	1120	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D

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ANALYTICAL RESULTS

Workorder: 2147996 CBR009|MALTANYSITE-WASTECHARA

Lab ID: **2147996001** Date Collected: 6/1/2016 14:00 Matrix: Solid

Sample ID: **CS-LF020** Date Received: 6/2/2016 08:57

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	9340 U	U	ug/kg	9340	841	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
bis(2-Chloroethyl)ether	9340 U	U	ug/kg	9340	1210	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
bis(2-Chloroisopropyl)ether	9340 U	U	ug/kg	9340	1400	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2-Chloronaphthalene	9340 U	U	ug/kg	9340	560	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2-Chlorophenol	18700 U	U	ug/kg	18700	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
4-Chlorophenyl-phenylether	9340 U	U	ug/kg	9340	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Chrysene	4670 U	U	ug/kg	4670	467	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
mp-Cresol	18700 U	U	ug/kg	18700	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
o-Cresol	18700 U	U	ug/kg	18700	1030	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Di-n-Butylphthalate	9340 U	U	ug/kg	9340	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Di-n-Octylphthalate	9340 U	U	ug/kg	9340	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Dibenzo(a,h)anthracene	4670 U	U	ug/kg	4670	560	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Dibenzofuran	3710J	J	ug/kg	9340	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
1,2-Dichlorobenzene	9340 U	U	ug/kg	9340	841	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
1,3-Dichlorobenzene	9340 U	U	ug/kg	9340	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
1,4-Dichlorobenzene	9340 U	U	ug/kg	9340	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
3,3-Dichlorobenzidine	18700 U	U	ug/kg	18700	3550	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2,4-Dichlorophenol	18700 U	U	ug/kg	18700	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2,6-Dichlorophenol	18700 U	U	ug/kg	18700	1030	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Diethylphthalate	9340 U	U	ug/kg	9340	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Dimethoate	18700 U	U	ug/kg	18700	1030	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2,4-Dimethylphenol	18700 U	U	ug/kg	18700	1400	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Dimethylphthalate	9340 U	U	ug/kg	9340	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
1,2-Dinitrobenzene	9340 U	U	ug/kg	9340	1770	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
1,4-Dinitrobenzene	9340 U	U	ug/kg	9340	1310	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2,4-Dinitrophenol	18700 U	U	ug/kg	18700	3740	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2,4-Dinitrotoluene	9340 U	U	ug/kg	9340	841	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2,6-Dinitrotoluene	9340 U	U	ug/kg	9340	1120	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Diphenylamine	9340 U	U	ug/kg	9340	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
1,2-Diphenylhydrazine	9340 U	U	ug/kg	9340	841	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
bis(2-Ethylhexyl)phthalate	9340 U	U	ug/kg	9340	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Fluoranthene	4670 U	U	ug/kg	4670	467	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Fluorene	3720J	J	ug/kg	4670	560	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Hexachlorobenzene	9340 U	U	ug/kg	9340	1030	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Hexachlorobutadiene	9340 U	U	ug/kg	9340	934	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Hexachlorocyclopentadiene	18700 U	U	ug/kg	18700	1030	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Hexachloroethane	9340 U	U	ug/kg	9340	841	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Indeno(1,2,3-cd)pyrene	4670 U	U	ug/kg	4670	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147996 CBR009|MALTANYSITE-WASTECHARA

Lab ID: **2147996001** Date Collected: 6/1/2016 14:00 Matrix: Solid

Sample ID: **CS-LF020** Date Received: 6/2/2016 08:57

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	9340 U	U	ug/kg	9340	560	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2-Methyl-4,6-dinitrophenol	18700 U	U	ug/kg	18700	2430	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2-Methylnaphthalene	170000		ug/kg	9340	467	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2-Naphthylamine	18700 U	U	ug/kg	18700	1490	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Naphthalene	91100		ug/kg	4670	560	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2-Nitroaniline	18700 U	U	ug/kg	18700	1120	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
3-Nitroaniline	18700 U	U	ug/kg	18700	1870	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
4-Nitroaniline	18700 U	U	ug/kg	18700	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Nitrobenzene	9340 U	U	ug/kg	9340	1120	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2-Nitrophenol	18700 U	U	ug/kg	18700	1030	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
4-Nitrophenol	18700 U	U	ug/kg	18700	1310	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
N-Nitrosodi-n-butylamine	9340 U	U	ug/kg	9340	1030	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
N-Nitrosodiethylamine	9340 U	U	ug/kg	9340	1210	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
N-Nitrosodimethylamine	9340 U	U	ug/kg	9340	1400	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
N-Nitroso-di-n-propylamine	9340 U	U	ug/kg	9340	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
N-Nitrosodiphenylamine	9340 U	U	ug/kg	9340	747	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
N-Nitrosopyrrolidine	9340 U	U	ug/kg	9340	1120	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Pentachlorobenzene	9340 U	U	ug/kg	9340	1030	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Pentachlorophenol	18700 U	U	ug/kg	18700	2430	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Phenanthrene	2430J	J	ug/kg	4670	467	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Phenol	18700 U	U	ug/kg	18700	934	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Pyrene	4670 U	U	ug/kg	4670	467	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Pyridine	18700 U	U	ug/kg	18700	1680	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Resorcinol	9340 U	U	ug/kg	9340	1310	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
1,2,4,5-Tetrachlorobenzene	9340 U	U	ug/kg	9340	654	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2,3,4,6-Tetrachlorophenol	18700 U	U	ug/kg	18700	1120	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
1,2,4-Trichlorobenzene	9340 U	U	ug/kg	9340	560	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2,4,5-Trichlorophenol	18700 U	U	ug/kg	18700	1120	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2,4,6-Trichlorophenol	18700 U	U	ug/kg	18700	1120	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	66.8		%	19 - 132	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2-Fluorobiphenyl (S)	66		%	40 - 110	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
2-Fluorophenol (S)	43.3		%	26 - 116	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Nitrobenzene-d5 (S)	62.8		%	38 - 112	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Phenol-d5 (S)	58.2		%	35 - 111	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D
Terphenyl-d14 (S)	67.6		%	45 - 126	SW846 8270D	6/6/16 03:55	CMA	6/8/16 06:26	DHF	D

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ANALYTICAL RESULTS

Workorder: 2147996 CBR009|MALTANYSITE-WASTECHARA

Lab ID: **2147996001** Date Collected: 6/1/2016 14:00 Matrix: Solid

Sample ID: **CS-LF020** Date Received: 6/2/2016 08:57

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	2.9 U	U	mg/kg	2.9	2.9	SW846 8082A	6/3/16 02:20	CMA	6/3/16 17:20	EGO	D
Aroclor-1016	2.9 U	U	mg/kg	2.9	0.53	SW846 8082A	6/3/16 02:20	CMA	6/3/16 17:20	EGO	D
Aroclor-1221	2.9 U	U	mg/kg	2.9	0.27	SW846 8082A	6/3/16 02:20	CMA	6/3/16 17:20	EGO	D
Aroclor-1232	2.9 U	U	mg/kg	2.9	0.53	SW846 8082A	6/3/16 02:20	CMA	6/3/16 17:20	EGO	D
Aroclor-1242	2.9 U	U	mg/kg	2.9	0.80	SW846 8082A	6/3/16 02:20	CMA	6/3/16 17:20	EGO	D
Aroclor-1248	2.9 U	U	mg/kg	2.9	0.53	SW846 8082A	6/3/16 02:20	CMA	6/3/16 17:20	EGO	D
Aroclor-1254	2.9 U	U	mg/kg	2.9	0.53	SW846 8082A	6/3/16 02:20	CMA	6/3/16 17:20	EGO	D
Aroclor-1260	2.9 U	U	mg/kg	2.9	0.53	SW846 8082A	6/3/16 02:20	CMA	6/3/16 17:20	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	91.5		%	49 - 115		SW846 8082A	6/3/16 02:20	CMA	6/3/16 17:20	EGO	D
Tetrachloro-m-xylene (S)	70.7		%	27 - 137		SW846 8082A	6/3/16 02:20	CMA	6/3/16 17:20	EGO	D
PESTICIDES											
Aldrin	75.6 U	U	ug/kg	75.6	24.5	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
alpha-BHC	75.6 U	U	ug/kg	75.6	6.7	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
beta-BHC	75.6 U	U	ug/kg	75.6	8.0	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
delta-BHC	75.6 U	U	ug/kg	75.6	5.8	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
gamma-BHC	75.6 U	U	ug/kg	75.6	6.2	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
alpha-Chlordane	75.6 U	U	ug/kg	75.6	8.0	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
gamma-Chlordane	75.6 U	U	ug/kg	75.6	12.9	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
4,4'-DDD	45.3J	J	ug/kg	147	12.0	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
4,4'-DDE	147 U	U	ug/kg	147	20.0	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
4,4'-DDT	147 U	U	ug/kg	147	16.9	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Dieldrin	147 U	U	ug/kg	147	16.9	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Endosulfan I	75.6 U	U	ug/kg	75.6	9.3	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Endosulfan II	147 U	U	ug/kg	147	30.7	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Endosulfan Sulfate	147 U	U	ug/kg	147	9.8	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Endrin	147 U	U	ug/kg	147	10.7	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Endrin Aldehyde	147 U	U	ug/kg	147	16.0	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Endrin Ketone	147 U	U	ug/kg	147	20.5	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Heptachlor	75.6 U	U	ug/kg	75.6	7.6	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Heptachlor Epoxide	75.6 U	U	ug/kg	75.6	7.6	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Methoxychlor	147 U	U	ug/kg	147	19.6	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Toxaphene	1560 U	U	ug/kg	1560	258	SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	59.7		%	30 - 135		SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D
Tetrachloro-m-xylene (S)	71.9		%	30 - 111		SW846 8081B	6/6/16 00:10	CMA	6/7/16 14:35	RWS	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2147996 CBR009|MALTANYSITE-WASTECHARA

Lab ID: **2147996001** Date Collected: 6/1/2016 14:00 Matrix: Solid

Sample ID: **CS-LF020** Date Received: 6/2/2016 08:57

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
HERBICIDES											
2,4-D	81.0 U	U	ug/kg	81.0	31.4	SW846 8151A	6/3/16 00:10	VLM	6/4/16 02:22	KJH	D
2,4-DB	81.0 U	U	ug/kg	81.0	43.5	SW846 8151A	6/3/16 00:10	VLM	6/4/16 02:22	KJH	D
Dalapon	81.0 U	U	ug/kg	81.0	20.6	SW846 8151A	6/3/16 00:10	VLM	6/4/16 02:22	KJH	D
Dicamba	81.0 U	U	ug/kg	81.0	29.0	SW846 8151A	6/3/16 00:10	VLM	6/4/16 02:22	KJH	D
Dichloroprop	81.0 U	U	ug/kg	81.0	32.6	SW846 8151A	6/3/16 00:10	VLM	6/4/16 02:22	KJH	D
Dinoseb	202 U	U	ug/kg	202	41.1	SW846 8151A	6/3/16 00:10	VLM	6/4/16 02:22	KJH	D
4-Nitrophenol	81.0 U	U	ug/kg	81.0	27.8	SW846 8151A	6/3/16 00:10	VLM	6/4/16 02:22	KJH	D
2,4,5-T	81.0 U	U	ug/kg	81.0	33.9	SW846 8151A	6/3/16 00:10	VLM	6/4/16 02:22	KJH	D
2,4,5-TP	81.0 U	U	ug/kg	81.0	37.5	SW846 8151A	6/3/16 00:10	VLM	6/4/16 02:22	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	45.8		%	36 - 113		SW846 8151A	6/3/16 00:10	VLM	6/4/16 02:22	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	6/7/16 17:00	MLM	6/8/16 01:30	LJF	H
Hexavalent Chromium	2.4 U	U	mg/kg	2.4	0.47	SW846 7196A	6/3/16 17:00	MLM	6/4/16 19:30	MLM	D
Ignitability	See comment	1				SW846 1030			6/7/16 11:00	SDL	H
Moisture	19.7		%	0.1	0.01	S2540G-11			6/3/16 11:01	SLC	E
Sulfide, Reactive	6.2 U	U	ppm	6.2	1.2	SW846 7.3	6/7/16 17:00	MLM	6/7/16 20:15	MLM	H
Total Solids	80.3		%	0.1	0.01	S2540G-11			6/3/16 11:01	SLC	E
METALS											
Aluminum, Total	625		mg/kg	20.8	6.9	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Antimony, Total	3.5J	J	mg/kg	4.2	1.4	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Arsenic, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Barium, Total	300		mg/kg	2.1	0.69	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Beryllium, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Cadmium, Total	0.66J	J	mg/kg	1.0	0.35	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Calcium, Total	110		mg/kg	20.8	6.9	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Chromium, Total	15.6		mg/kg	2.1	0.69	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Cobalt, Total	5.1		mg/kg	2.1	0.69	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Copper, Total	147		mg/kg	4.2	1.4	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Iron, Total	110000		mg/kg	20.8	6.9	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Lead, Total	8.7		mg/kg	4.2	1.4	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Magnesium, Total	32.1		mg/kg	20.8	6.9	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Manganese, Total	312		mg/kg	2.1	0.69	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Mercury, Total	0.077		mg/kg	0.062	0.020	SW846 7471B	6/8/16 09:30	MNP	6/8/16 11:03	MNP	D2

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ANALYTICAL RESULTS

Workorder: 2147996 CBR009|MALTANYSITE-WASTECHARA

Lab ID: **2147996001** Date Collected: 6/1/2016 14:00 Matrix: Solid

Sample ID: **CS-LF020** Date Received: 6/2/2016 08:57

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Nickel, Total	41.3		mg/kg	4.2	1.4	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Potassium, Total	44.0J	J	mg/kg	104	34.7	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Selenium, Total	10.4 U	U	mg/kg	10.4	3.5	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Silver, Total	1.0 U	U	mg/kg	1.0	0.35	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Sodium, Total	56.6J	J	mg/kg	104	34.7	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Thallium, Total	6.2 U	U	mg/kg	6.2	2.1	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Vanadium, Total	4.7		mg/kg	2.1	0.69	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1
Zinc, Total	2650		mg/kg	4.2	1.4	SW846 6010C	6/5/16 11:15	JPS	6/7/16 04:34	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2147996001	1	CS-LF020	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2147996001	2	CS-LF020	SW846 8260C	Benzyl Chloride
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Benzyl Chloride. The % Recovery was reported as 60 and the control limits were 67 to 125.				

Wednesday, June 08, 2016 4:49:39 PM

ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier: FedEx

Tracking #: 643083396600

* 2 1 4 7 9 9 6 *

Co. Name: CB&I Environmental & Infrastructure, Inc.

Contact (Report to): Brian Neumann Phone: (518) 785-2354

Address: 13 British American Blvd, Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area/ 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALS approval and surcharges. 5-day Date Required: Approved By:

Email? [X] Y brian.neumann@CBI.com

Fax? [ ] Y No.:

	***Container Type	***Container Size	*** Preservative
	Encore	CG 8oz	—

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs 8260C	SVOCs 8270D	PCBs 8082A	Pesticides 8081B	Herbicides 8151A	Reactivity / Ignitability	Total Metals 6010C / 7471B (mercury)	Hexavalent Chromium 7196A	Moisture
		Enter Number of Containers Per Analysis												
1 CS-LF020		1400	6-1-16	G	SL	3	←	—	—	3	—	—	→	1
2														
3														
4														
5														
6														
7														
8														

Cooler Temp: 3°C

Therm. ID: 171-350

No. of Coolers:

Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	Y N	Y N	Y N	Y N	Y N

	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
	Y N	Y N	Y N	Y N	Y N

SAMPLED BY (Please Print): Adam Norvelle

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Adam Norvelle / CBI	6-1-16	1730	2	6/1/16	1530
3	6/1/16	1700	4	6/2/16	0852
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other

EDDs Required? [ ] If yes, format type:

DOD Criteria Required?

SDWA Forms?⇨ yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

Other

ENTER PWSID No.

ALS FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite

**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

June 15, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2149112**
Purchase Order:		Workorder ID:	**CBR014|MaltaRocketFuelArea/154**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, June 7, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2149112001	CS-LF021	Other	6/3/2016 10:25	6/7/2016 15:34	Collected by Client
2149112002	TB5	NY Non-Potable Water	6/3/2016 00:00	6/7/2016 15:34	Collected by Client

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SAMPLE SUMMARY

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Sample Comments

Lab ID: 2149112001 **Sample ID:** CS-LF021 **Sample Type:** SAMPLE

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2149112002 **Sample ID:** TB5 **Sample Type:** SAMPLE

Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.

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ANALYTICAL RESULTS

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Lab ID: **2149112001** Date Collected: 6/3/2016 10:25 Matrix: Other

Sample ID: **CS-LF021** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	5330000 0		ug/kg	909000 0	282000 0	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Benzene	909000 U	U	ug/kg	909000	209000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Bromochloromethane	909000 U	U	ug/kg	909000	291000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Bromodichloromethane	909000 U	U	ug/kg	909000	245000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Bromoform	909000 U	U	ug/kg	909000	364000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Bromomethane	473000J	J	ug/kg	909000	355000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
2-Butanone	9090000 U	U	ug/kg	909000 0	164000 0	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Carbon Disulfide	909000 U	U	ug/kg	909000	209000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Carbon Tetrachloride	909000 U	U	ug/kg	909000	282000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Chlorobenzene	909000 U	U	ug/kg	909000	173000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Chlorodibromomethane	909000 U	U	ug/kg	909000	409000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Chloroethane	909000 U	U	ug/kg	909000	300000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Chloroform	273000J	J	ug/kg	909000	191000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Chloromethane	546000J	J	ug/kg	909000	282000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Cyclohexane	909000 U	U	ug/kg	909000	264000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,2-Dibromo-3-chloropropane	6360000 U	U	ug/kg	636000 0	136000 0	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,2-Dibromoethane	909000 U	U	ug/kg	909000	255000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,2-Dichlorobenzene	909000 U	U	ug/kg	909000	345000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,3-Dichlorobenzene	909000 U	U	ug/kg	909000	227000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,4-Dichlorobenzene	909000 U	U	ug/kg	909000	245000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Dichlorodifluoromethane	909000 U	U	ug/kg	909000	300000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,1-Dichloroethane	909000 U	U	ug/kg	909000	255000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,2-Dichloroethane	909000 U	U	ug/kg	909000	291000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,1-Dichloroethene	909000 U	U	ug/kg	909000	264000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
cis-1,2-Dichloroethene	909000 U	U	ug/kg	909000	291000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
trans-1,2-Dichloroethene	909000 U	U	ug/kg	909000	236000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,2-Dichloropropane	909000 U	U	ug/kg	909000	218000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
cis-1,3-Dichloropropene	909000 U	U	ug/kg	909000	282000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
trans-1,3-Dichloropropene	909000 U	U	ug/kg	909000	264000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,4-Dioxane	2910000 0 U	U	ug/kg	291000 000	535000 00	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Ethylbenzene	909000 U	U	ug/kg	909000	309000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Freon 113	909000 U	U	ug/kg	909000	236000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
2-Hexanone	4550000 U	U	ug/kg	455000 0	118000 0	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Isopropylbenzene	909000 U	U	ug/kg	909000	200000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1

ANALYTICAL RESULTS

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Lab ID: **2149112001** Date Collected: 6/3/2016 10:25 Matrix: Other

Sample ID: **CS-LF021** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl acetate	1820000 U	U	ug/kg	1820000	291000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Methyl cyclohexane	909000 U	U	ug/kg	909000	273000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Methyl t-Butyl Ether	909000 U	U	ug/kg	909000	300000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
4-Methyl-2-Pentanone(MIBK)	4550000 U	U	ug/kg	4550000	1360000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Methylene Chloride	909000 U	U	ug/kg	909000	409000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Styrene	909000 U	U	ug/kg	909000	218000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,1,2,2-Tetrachloroethane	909000 U	U	ug/kg	909000	309000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Tetrachloroethene	909000 U	U	ug/kg	909000	318000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Toluene	1710000		ug/kg	909000	209000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Total Xylenes	2730000 U	U	ug/kg	2730000	600000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,2,3-Trichlorobenzene	1820000 U	U	ug/kg	1820000	845000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,2,4-Trichlorobenzene	1820000 U	U	ug/kg	1820000	745000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,1,1-Trichloroethane	909000 U	U	ug/kg	909000	200000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
1,1,2-Trichloroethane	909000 U	U	ug/kg	909000	300000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Trichloroethene	909000 U	U	ug/kg	909000	300000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Trichlorofluoromethane	909000 U	U	ug/kg	909000	218000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Vinyl Chloride	909000 U	U	ug/kg	909000	273000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
o-Xylene	909000 U	U	ug/kg	909000	300000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
mp-Xylene	1820000 U	U	ug/kg	1820000	473000	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	95.3		%	71 - 146	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
4-Bromofluorobenzene (S)	97.8		%	46 - 138	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Dibromofluoromethane (S)	84.6		%	42 - 143	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
Toluene-d8 (S)	87.6		%	54 - 141	SW846 8260C	6/8/16 04:03	TMP	6/14/16 20:34	TMP	F1
SEMIVOLATILES										
Acenaphthene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Acenaphthylene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Anthracene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Benzo(a)anthracene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Benzo(a)pyrene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Benzo(b)fluoranthene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Benzo(g,h,i)perylene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Benzo(k)fluoranthene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
4-Bromophenyl-phenylether	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Lab ID: **2149112001** Date Collected: 6/3/2016 10:25 Matrix: Other

Sample ID: **CS-LF021** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Butylbenzylphthalate	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Carbazole	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
4-Chloro-3-methylphenol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
4-Chloroaniline	39200 U	U,3,4	ug/kg	39200	19600	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
bis(2-Chloroethoxy)methane	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
bis(2-Chloroethyl)ether	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
bis(2-Chloroisopropyl)ether	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2-Chloronaphthalene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2-Chlorophenol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
4-Chlorophenyl-phenylether	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Chrysene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
mp-Cresol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
o-Cresol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Di-n-Butylphthalate	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Di-n-Octylphthalate	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Dibenzo(a,h)anthracene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Dibenzofuran	13100J	J	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
1,2-Dichlorobenzene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
1,3-Dichlorobenzene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
1,4-Dichlorobenzene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
3,3-Dichlorobenzidine	58700 U	U,1,2	ug/kg	58700	29400	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2,4-Dichlorophenol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Diethylphthalate	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2,4-Dimethylphenol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Dimethylphthalate	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2,4-Dinitrophenol	117000 U	U	ug/kg	117000	58700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2,4-Dinitrotoluene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2,6-Dinitrotoluene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
bis(2-Ethylhexyl)phthalate	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Fluoranthene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Fluorene	11400J	J	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Hexachlorobenzene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Hexachlorobutadiene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Hexachlorocyclopentadiene	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Hexachloroethane	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Indeno(1,2,3-cd)pyrene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Isophorone	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Lab ID: **2149112001** Date Collected: 6/3/2016 10:25 Matrix: Other

Sample ID: **CS-LF021** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Methyl-4,6-dinitrophenol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2-Methylnaphthalene	570000		ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Naphthalene	307000		ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2-Nitroaniline	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
3-Nitroaniline	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
4-Nitroaniline	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Nitrobenzene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2-Nitrophenol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
4-Nitrophenol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
N-Nitroso-di-n-propylamine	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
N-Nitrosodiphenylamine	17600 U	U	ug/kg	17600	8810	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Pentachlorophenol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Phenanthrene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Phenol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Pyrene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
1,2,4-Trichlorobenzene	14700 U	U	ug/kg	14700	7340	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2,4,5-Trichlorophenol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2,4,6-Trichlorophenol	29400 U	U	ug/kg	29400	14700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	105		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2-Fluorobiphenyl (S)	103		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
2-Fluorophenol (S)	104		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Nitrobenzene-d5 (S)	106		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Phenol-d5 (S)	93.9		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
Terphenyl-d14 (S)	101		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:40	EGO	B
PESTICIDES											
Aldrin	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
alpha-BHC	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
beta-BHC	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
delta-BHC	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
gamma-BHC	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Chlordane	948 U	U	ug/kg	948		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
alpha-Chlordane	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
gamma-Chlordane	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
4,4'-DDD	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
4,4'-DDE	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
4,4'-DDT	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Lab ID: **2149112001** Date Collected: 6/3/2016 10:25 Matrix: Other

Sample ID: **CS-LF021** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Dieldrin	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Endosulfan I	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Endosulfan II	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Endosulfan Sulfate	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Endrin	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Endrin Aldehyde	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Endrin Ketone	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Heptachlor	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Heptachlor Epoxide	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Methoxychlor	47.4 U	U	ug/kg	47.4		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Toxaphene	1900 U	U	ug/kg	1900		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	59.8		%	70 - 130		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
Tetrachloro-m-xylene (S)	67.8		%	70 - 130		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:33	RWS	B
PCBs											
Aroclor-1016	0.98 U	U	mg/kg	0.98	0.14	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:25	EGO	B
Aroclor-1221	0.98 U	U	mg/kg	0.98	0.39	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:25	EGO	B
Aroclor-1232	0.98 U	U	mg/kg	0.98	0.35	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:25	EGO	B
Aroclor-1242	0.98 U	U	mg/kg	0.98	0.33	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:25	EGO	B
Aroclor-1248	0.98 U	U	mg/kg	0.98	0.34	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:25	EGO	B
Aroclor-1254	0.98 U	U	mg/kg	0.98	0.28	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:25	EGO	B
Aroclor-1260	0.98 U	U	mg/kg	0.98	0.12	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:25	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	139		%	64 - 150		600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:25	EGO	B
Tetrachloro-m-xylene (S)	142		%	74 - 152		600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:25	EGO	B
HERBICIDES											
2,4-D	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 12:22	KJH	B
2,4-DB	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 12:22	KJH	B
Dalapon	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 12:22	KJH	B
Dicamba	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 12:22	KJH	B
Dichloroprop	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 12:22	KJH	B
Dinoseb	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 12:22	KJH	B
Pentachlorophenol	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 12:22	KJH	B
2,4,5-T	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 12:22	KJH	B
2,4,5-TP	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 12:22	KJH	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*

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ANALYTICAL RESULTS

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Lab ID: **2149112001** Date Collected: 6/3/2016 10:25 Matrix: Other

Sample ID: **CS-LF021** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2,4-Dichlorophenylacetic acid (S)	18.8		%			SW846 8151A	6/9/16 09:40	VLM	6/10/16 12:22	KJH	B
WET CHEMISTRY											
Corrosivity as pH	0.05	7	pH_Units			SW846 9045D			6/8/16 04:17	MSA	B
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	6/11/16 16:00	MLM	6/12/16 21:39	LJF	B
Flashpoint/Ignitability	See comment	5,6	Deg. F			SW-846 1010A			6/13/16 06:00	SDL	B
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.39	SW846 7196A	6/9/16 15:00	MLM	6/10/16 19:00	MLM	B
Sulfide, Reactive	19.2		ppm	6.2	1.2	SW846 7.3	6/11/16 16:00	MLM	6/12/16 21:00	MLM	B
METALS											
Aluminum, Total	27.4		mg/kg	21.7	7.2	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Antimony, Total	4.3 U	U	mg/kg	4.3	1.5	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Arsenic, Total	4.3 U	U	mg/kg	4.3	1.5	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Barium, Total	1.8J	J	mg/kg	2.2	0.72	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Beryllium, Total	2.2 U	U	mg/kg	2.2	0.72	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Cadmium, Total	1.1 U	U	mg/kg	1.1	0.36	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Calcium, Total	28.3		mg/kg	21.7	7.2	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Chromium, Total	2.2 U	U	mg/kg	2.2	0.72	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Cobalt, Total	2.2 U	U	mg/kg	2.2	0.72	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Copper, Total	4.3 U	U	mg/kg	4.3	1.5	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Iron, Total	179		mg/kg	21.7	7.2	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Lead, Total	1.9J	J	mg/kg	4.3	1.5	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Magnesium, Total	21.7 U	U	mg/kg	21.7	7.2	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Manganese, Total	2.2 U	U	mg/kg	2.2	0.72	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Mercury, Total	0.048 U	U	mg/kg	0.048	0.015	SW846 7471B	6/8/16 09:30	MNP	6/8/16 11:59	MNP	B2
Nickel, Total	4.3 U	U	mg/kg	4.3	1.5	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Potassium, Total	109 U	U	mg/kg	109	36.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Selenium, Total	9.2J	J	mg/kg	10.9	3.6	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Silver, Total	1.1 U	U	mg/kg	1.1	0.36	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Sodium, Total	109 U	U	mg/kg	109	36.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Thallium, Total	6.5 U	U	mg/kg	6.5	2.2	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Vanadium, Total	2.2 U	U	mg/kg	2.2	0.72	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1
Zinc, Total	1070		mg/kg	4.3	1.5	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:47	TSS	B1

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ANALYTICAL RESULTS

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Lab ID: **2149112001** Date Collected: 6/3/2016 10:25 Matrix: Other

Sample ID: **CS-LF021** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Lab ID: **2149112002** Date Collected: 6/3/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB5** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Acetone	3.9J	J	ug/L	10.0	3.1	SW846 8260C		6/10/16 13:01	DD	A
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/10/16 13:01	DD	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 13:01	DD	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/10/16 13:01	DD	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/10/16 13:01	DD	A
Bromomethane	1.0 U	U	ug/L	1.0	0.39	SW846 8260C		6/10/16 13:01	DD	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/10/16 13:01	DD	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/10/16 13:01	DD	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 13:01	DD	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/10/16 13:01	DD	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/10/16 13:01	DD	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 13:01	DD	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/10/16 13:01	DD	A
Chloromethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 13:01	DD	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 13:01	DD	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/10/16 13:01	DD	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/10/16 13:01	DD	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/10/16 13:01	DD	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/10/16 13:01	DD	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/10/16 13:01	DD	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 13:01	DD	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/10/16 13:01	DD	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 13:01	DD	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 13:01	DD	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 13:01	DD	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/10/16 13:01	DD	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/10/16 13:01	DD	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 13:01	DD	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 13:01	DD	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/10/16 13:01	DD	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/10/16 13:01	DD	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/10/16 13:01	DD	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/10/16 13:01	DD	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/10/16 13:01	DD	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		6/10/16 13:01	DD	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/10/16 13:01	DD	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149112 CBR014|MaltaRocketFuelArea/154

Lab ID: **2149112002** Date Collected: 6/3/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB5** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 13:01	DD	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C		6/10/16 13:01	DD	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/10/16 13:01	DD	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/10/16 13:01	DD	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/10/16 13:01	DD	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		6/10/16 13:01	DD	A
Toluene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/10/16 13:01	DD	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C		6/10/16 13:01	DD	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C		6/10/16 13:01	DD	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C		6/10/16 13:01	DD	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/10/16 13:01	DD	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 13:01	DD	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 13:01	DD	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/10/16 13:01	DD	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/10/16 13:01	DD	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 13:01	DD	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C		6/10/16 13:01	DD	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.5		%	62 - 133	SW846 8260C			6/10/16 13:01	DD	A
4-Bromofluorobenzene (S)	91.3		%	79 - 114	SW846 8260C			6/10/16 13:01	DD	A
Dibromofluoromethane (S)	85.9		%	78 - 116	SW846 8260C			6/10/16 13:01	DD	A
Toluene-d8 (S)	84.2		%	76 - 127	SW846 8260C			6/10/16 13:01	DD	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2149112001	1	CS-LF021	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 41.1 and the control limits were 50 to 200.				
2149112001	2	CS-LF021	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 38.6 and the control limits were 50 to 200.				
2149112001	3	CS-LF021	SW846 8270D	4-Chloroaniline
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 42.3 and the control limits were 50 to 200.				
2149112001	4	CS-LF021	SW846 8270D	4-Chloroaniline
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 41.6 and the control limits were 50 to 200.				
2149112001	5	CS-LF021	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is considered to be ignitable. (Ref 40 CFR 261.21)				
2149112001	6	CS-LF021	SW-846 1010A	Flashpoint/Ignitability
Sample flashed at 82 degrees F (Acetone)				
2149112001	7	CS-LF021	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				

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F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier:

Tracking #: 6470

2149112

Co. Name: CB&I Environmental & Infrastructure

Contact (Report to): Brian Neumann Phone:

Address:
13 British American Blvd
Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area / 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALS approval and surcharges. 5-day Date Required: Approved By:

Email? X Y brian.neumann@cbi.com Fax? Y No.

DA 6/6/16

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	***Container Type	***Container Size	*** Preservative	VOCs 8260C	SVOCs 8270D	Pesticides 8081B	PCBs 8082A	Metals (Total) 6010C/7471B (mercury) + Cr+6 7196A	Reactivity/Corrosivity	Ignitability 1030	Herbicides 8151A		
						ANALYSES/METHOD REQUESTED												
						Enter Number of Containers Per Analysis												
1 CS-LF021	*WARNING - see attached	6-1-16	1025	G	OL	CG	40mL	None	3	1	1	1	1	← 1 →		1		
2 TB5		6-1-16	—	—		AG	1L		3									
3						AG	1L											
4						AG	1L											
5						PL	500mL											
6						PL	500mL											
7						PL	1L											
8																		

vials from headspace 6/7 dgm

6/7/16 2057

Cooler Temp: 5°C

Therm. ID: 3 3 Z

No. of Coolers:

Notes:

dgm 6/7

	1	2	3	4	5	6	7	8
Correct containers?	N	N	N	N	N	N	N	N
Correct sample volume?	N	N	N	N	N	N	N	N
Correct preservation?	/							
Headspace/Volatiles?								
Circle appropriate Y or N.								
Custody seals Present?								
(if present) Seals Intact?								
Received on Ice?								
COC/Labels complete/accurate?								
Container in good condition?								

SAMPLED BY (Please Print):

Project Comments: DA 6/6/16

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Adam Norvelle	6-1-16	~~15:47~~ 1445	2 Brian McGuirk	6/6/16	1445
3 Brian McGuirk/ALS	6/6/16	5:00 PM	4 Cassie	0617	1534
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other:

EDDs Required? [ ] If yes, format type:

DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

Other

⇨ Enter PWSID No.

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite

**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 01-2013

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WARNING: Sample G-LF021 is highly volatile and likely contains or is composed mostly of Acetone.

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-4-16 DA 6/6/16
Container ID #	LF021
Original Container Location	
Original Container Type	55-gal Stainless steel
Original Container Size	55-gal
Original Container Condition	Dented but still intact
Original Container Labels / Markings	Acetone
Outer / Overpack Container Type	
Spill or Leak? (Y/N)	
Vapor? (Y/N)	Yes
PID Reading (ppm)	+ (out of range)
LEL Reading (%)	100%
Oxygen Reading (%)	—
Physcial State (Liquid / Solid / Sludge / Powder)	
Color	
Notes	Highly volatile; drum initially under pressure – hiss when bung cracked open.
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF021 / 6-4-16 @ 1025
Soil Under Contaner Sample ID # / Time	
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

June 13, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2148418**
Purchase Order:		Workorder ID:	**CBR010|2016-MALTA NY SITE-WAST**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Friday, June 3, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2148418001	CS-LF022	Solid	6/2/2016 10:30	6/3/2016 09:15	Collected by Client
2148418002	DUP1-SOIL	Solid	6/2/2016 00:00	6/3/2016 09:15	Collected by Client

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SAMPLE SUMMARY

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Sample Comments

Lab ID: 2148418001 **Sample ID:** CS-LF022 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2148418002 **Sample ID:** DUP1-SOIL **Sample Type:** SAMPLE

One of the GCMS semi-volatile internal standards were recovered at <50% in the sample duplicate. The sample and sample duplicate shared similar results indicating a sample matrix interference.
This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.
This sample was analyzed at a dilution in the 8151 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418001** Date Collected: 6/2/2016 10:30 Matrix: Solid

Sample ID: **CS-LF022** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	597		ug/kg	15.4	7.1	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Acetonitrile	15.4 U	U	ug/kg	15.4	5.2	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Acrolein	77.1 U	U,1	ug/kg	77.1	10.2	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Acrylonitrile	15.4 U	U	ug/kg	15.4	4.2	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Benzene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Benzyl Chloride	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Bromobenzene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Bromochloromethane	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Bromodichloromethane	3.1 U	U	ug/kg	3.1	1.1	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Bromoform	3.1 U	U	ug/kg	3.1	0.80	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Bromomethane	3.1 U	U	ug/kg	3.1	0.80	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
2-Butanone	7.1J	J	ug/kg	15.4	4.9	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
tert-Butyl Alcohol	15.4 U	U	ug/kg	15.4	5.4	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
n-Butylbenzene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
tert-Butylbenzene	3.1 U	U	ug/kg	3.1	0.85	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
sec-Butylbenzene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Carbon Disulfide	3.1 U	U	ug/kg	3.1	0.97	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Carbon Tetrachloride	3.1 U	U	ug/kg	3.1	0.79	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Chlorobenzene	3.1 U	U	ug/kg	3.1	0.79	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Chlorodibromomethane	3.1 U	U	ug/kg	3.1	1.0	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Chloroethane	7.7 U	U	ug/kg	7.7	1.3	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Chloroform	3.1 U	U	ug/kg	3.1	0.82	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Chloromethane	3.1 U	U	ug/kg	3.1	0.85	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Chloroprene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
3-Chloro-1-propene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
o-Chlorotoluene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
p-Chlorotoluene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Cyclohexane	3.1 U	U	ug/kg	3.1	0.79	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,2-Dibromo-3-chloropropane	7.7 U	U	ug/kg	7.7	4.5	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,2-Dibromoethane	3.1 U	U	ug/kg	3.1	0.83	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Dibromomethane	3.1 U	U	ug/kg	3.1	1.1	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,2-Dichlorobenzene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,3-Dichlorobenzene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,4-Dichlorobenzene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Dichlorodifluoromethane	3.1 U	U	ug/kg	3.1	1.0	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,1-Dichloroethane	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418001** Date Collected: 6/2/2016 10:30 Matrix: Solid

Sample ID: **CS-LF022** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,1-Dichloroethene	3.1 U	U	ug/kg	3.1	0.80	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
cis-1,2-Dichloroethene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
trans-1,2-Dichloroethene	3.1 U	U	ug/kg	3.1	0.80	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,3-Dichloropropane	3.1 U	U	ug/kg	3.1	1.3	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
2,2-Dichloropropane	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,2-Dichloropropane	3.1 U	U	ug/kg	3.1	0.93	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,1-Dichloropropene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
cis-1,3-Dichloropropene	3.1 U	U	ug/kg	3.1	0.85	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
trans-1,3-Dichloropropene	3.1 U	U	ug/kg	3.1	0.89	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,4-Dioxane	116 U	U	ug/kg	116	27.4	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Ethyl Methacrylate	3.1 U	U	ug/kg	3.1	0.79	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Ethyl Acetate	14.1	9	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Ethylbenzene	3.1 U	U	ug/kg	3.1	1.0	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Freon 113	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
2-Hexanone	15.4 U	U	ug/kg	15.4	4.3	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Isobutyl alcohol	77.1 U	U	ug/kg	77.1	12.0	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Isopropylbenzene	3.1 U	U	ug/kg	3.1	0.94	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
p-Isopropyltoluene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Methacrylonitrile	3.1 U	U	ug/kg	3.1	0.83	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Methyl methacrylate	7.7 U	U	ug/kg	7.7	3.5	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Methyl acetate	2.3J	J,4,5,6	ug/kg	3.1	0.91	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Methyl cyclohexane	3.1 U	U	ug/kg	3.1	0.86	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Methyl t-Butyl Ether	0.81J	J,7	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
4-Methyl-2-Pentanone(MIBK)	15.4 U	U	ug/kg	15.4	5.9	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Methylene Chloride	26.5	2,3	ug/kg	3.1	1.2	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Naphthalene	0.90J	J	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Propionitrile	15.4 U	U	ug/kg	15.4	6.5	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
n-Propylbenzene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Styrene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,1,1,2-Tetrachloroethane	3.1 U	U	ug/kg	3.1	0.99	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,1,2,2-Tetrachloroethane	3.1 U	U	ug/kg	3.1	0.86	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Tetrachloroethene	3.1 U	U	ug/kg	3.1	0.93	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Toluene	3.1 U	U	ug/kg	3.1	1.0	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Total Xylenes	9.3 U	U	ug/kg	9.3	2.2	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,2,4-Trichlorobenzene	7.7 U	U	ug/kg	7.7	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,1,1-Trichloroethane	3.1 U	U	ug/kg	3.1	0.96	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418001** Date Collected: 6/2/2016 10:30 Matrix: Solid

Sample ID: **CS-LF022** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,2-Trichloroethane	3.1 U	U	ug/kg	3.1	0.86	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Trichloroethene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Trichlorofluoromethane	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,2,3-Trichloropropane	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,2,4-Trimethylbenzene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
1,3,5-Trimethylbenzene	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Vinyl Acetate	3.1 U	U,8	ug/kg	3.1	0.80	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Vinyl Chloride	3.1 U	U	ug/kg	3.1	0.77	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
o-Xylene	3.1 U	U	ug/kg	3.1	0.89	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
mp-Xylene	6.2 U	U	ug/kg	6.2	1.3	SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	75.3		%	56 - 124		SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
4-Bromofluorobenzene (S)	97.2		%	51 - 128		SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Dibromofluoromethane (S)	87.3		%	62 - 123		SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
Toluene-d8 (S)	89.9		%	59 - 131		SW846 8260C	6/4/16 01:14	TMP	6/9/16 17:31	TMP	B
SEMIVOLATILES											
Acenaphthene	52.7 U	U	ug/kg	52.7	6.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Acenaphthylene	52.7 U	U	ug/kg	52.7	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Acetophenone	105 U	U	ug/kg	105	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Aniline	211 U	U,11	ug/kg	211	15.8	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Anthracene	52.7 U	U	ug/kg	52.7	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Atrazine	105 U	U	ug/kg	105	11.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Benzaldehyde	211 U	U	ug/kg	211	17.9	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Benzidine	211 U	U,19	ug/kg	211	33.7	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Benzo(a)anthracene	52.7 U	U	ug/kg	52.7	5.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Benzo(a)pyrene	52.7 U	U	ug/kg	52.7	4.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Benzo(b)fluoranthene	52.7 U	U	ug/kg	52.7	5.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Benzo(g,h,i)perylene	52.7 U	U,24	ug/kg	52.7	5.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Benzoic acid	111J	J	ug/kg	569	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Benzo(k)fluoranthene	52.7 U	U,21	ug/kg	52.7	5.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Benzyl Alcohol	105 U	U,12	ug/kg	105	19.0	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Biphenyl	105 U	U	ug/kg	105	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
4-Bromophenyl-phenylether	105 U	U	ug/kg	105	9.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Butylbenzylphthalate	105 U	U	ug/kg	105	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Caprolactam	211 U	U	ug/kg	211	19.0	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418001** Date Collected: 6/2/2016 10:30 Matrix: Solid

Sample ID: **CS-LF022** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Carbazole	105 U	U	ug/kg	105	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
4-Chloro-3-methylphenol	211 U	U	ug/kg	211	10.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
4-Chloroaniline	211 U	U	ug/kg	211	12.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
bis(2-Chloroethoxy)methane	105 U	U,14	ug/kg	105	9.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
bis(2-Chloroethyl)ether	105 U	U	ug/kg	105	13.7	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
bis(2-Chloroisopropyl)ether	105 U	U	ug/kg	105	15.8	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2-Chloronaphthalene	105 U	U	ug/kg	105	6.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2-Chlorophenol	211 U	U	ug/kg	211	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
4-Chlorophenyl-phenylether	105 U	U	ug/kg	105	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Chrysene	52.7 U	U	ug/kg	52.7	5.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
mp-Cresol	211 U	U	ug/kg	211	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
o-Cresol	211 U	U	ug/kg	211	11.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Di-n-Butylphthalate	105 U	U	ug/kg	105	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Di-n-Octylphthalate	105 U	U	ug/kg	105	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Dibenzo(a,h)anthracene	52.7 U	U,23	ug/kg	52.7	6.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Dibenzofuran	105 U	U	ug/kg	105	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
1,2-Dichlorobenzene	105 U	U	ug/kg	105	9.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
1,3-Dichlorobenzene	105 U	U	ug/kg	105	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
1,4-Dichlorobenzene	105 U	U	ug/kg	105	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
3,3-Dichlorobenzidine	211 U	U,20	ug/kg	211	40.0	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2,4-Dichlorophenol	211 U	U	ug/kg	211	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2,6-Dichlorophenol	211 U	U,15	ug/kg	211	11.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Diethylphthalate	105 U	U	ug/kg	105	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Dimethoate	211 U	U	ug/kg	211	11.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2,4-Dimethylphenol	211 U	U	ug/kg	211	15.8	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Dimethylphthalate	105 U	U	ug/kg	105	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
1,2-Dinitrobenzene	105 U	U	ug/kg	105	20.0	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
1,4-Dinitrobenzene	105 U	U	ug/kg	105	14.8	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2,4-Dinitrophenol	211 U	U	ug/kg	211	42.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2,4-Dinitrotoluene	105 U	U	ug/kg	105	9.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2,6-Dinitrotoluene	105 U	U	ug/kg	105	12.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Diphenylamine	105 U	U	ug/kg	105	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
1,2-Diphenylhydrazine	105 U	U	ug/kg	105	9.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
bis(2-Ethylhexyl)phthalate	2040		ug/kg	105	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Fluoranthene	52.7 U	U	ug/kg	52.7	5.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Fluorene	52.7 U	U	ug/kg	52.7	6.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418001** Date Collected: 6/2/2016 10:30 Matrix: Solid

Sample ID: **CS-LF022** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobenzene	105 U	U	ug/kg	105	11.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Hexachlorobutadiene	105 U	U	ug/kg	105	10.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Hexachlorocyclopentadiene	211 U	U,16	ug/kg	211	11.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Hexachloroethane	105 U	U	ug/kg	105	9.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Indeno(1,2,3-cd)pyrene	52.7 U	U,22	ug/kg	52.7	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Isophorone	105 U	U	ug/kg	105	6.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2-Methyl-4,6-dinitrophenol	211 U	U,18	ug/kg	211	27.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2-Methylnaphthalene	12.0J	J	ug/kg	105	5.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2-Naphthylamine	211 U	U,17	ug/kg	211	16.9	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Naphthalene	52.7 U	U	ug/kg	52.7	6.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2-Nitroaniline	211 U	U	ug/kg	211	12.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
3-Nitroaniline	211 U	U	ug/kg	211	21.1	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
4-Nitroaniline	211 U	U	ug/kg	211	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Nitrobenzene	105 U	U,13	ug/kg	105	12.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2-Nitrophenol	211 U	U	ug/kg	211	11.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
4-Nitrophenol	211 U	U	ug/kg	211	14.8	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
N-Nitrosodi-n-butylamine	105 U	U	ug/kg	105	11.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
N-Nitrosodiethylamine	105 U	U,25	ug/kg	105	13.7	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
N-Nitrosodimethylamine	105 U	U	ug/kg	105	15.8	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
N-Nitroso-di-n-propylamine	105 U	U	ug/kg	105	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
N-Nitrosodiphenylamine	105 U	U	ug/kg	105	8.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
N-Nitrosopyrrolidine	105 U	U	ug/kg	105	12.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Pentachlorobenzene	105 U	U	ug/kg	105	11.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Pentachlorophenol	211 U	U	ug/kg	211	27.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Phenanthrene	52.7 U	U	ug/kg	52.7	5.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Phenol	211 U	U	ug/kg	211	10.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Pyrene	52.7 U	U	ug/kg	52.7	5.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Pyridine	211 U	U	ug/kg	211	19.0	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Resorcinol	105 U	U,10	ug/kg	105	14.8	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
1,2,4,5-Tetrachlorobenzene	105 U	U	ug/kg	105	7.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2,3,4,6-Tetrachlorophenol	211 U	U	ug/kg	211	12.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
1,2,4-Trichlorobenzene	105 U	U	ug/kg	105	6.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2,4,5-Trichlorophenol	211 U	U	ug/kg	211	12.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2,4,6-Trichlorophenol	211 U	U	ug/kg	211	12.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418001** Date Collected: 6/2/2016 10:30 Matrix: Solid

Sample ID: **CS-LF022** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	72.1		%	19 - 132		SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2-Fluorobiphenyl (S)	96.4		%	40 - 110		SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
2-Fluorophenol (S)	77		%	26 - 116		SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Nitrobenzene-d5 (S)	82.1		%	38 - 112		SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Phenol-d5 (S)	70.8		%	35 - 111		SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
Terphenyl-d14 (S)	94.8		%	45 - 126		SW846 8270D	6/6/16 03:55	CMA	6/6/16 14:11	CGS	D
PCBs											
Total Polychlorinated Biphenyl	0.036 U	U	mg/kg	0.036	0.036	SW846 8082A	6/6/16 00:10	CMA	6/7/16 15:59	EGO	D
Aroclor-1016	0.036 U	U	mg/kg	0.036	0.0065	SW846 8082A	6/6/16 00:10	CMA	6/7/16 15:59	EGO	D
Aroclor-1221	0.036 U	U	mg/kg	0.036	0.0032	SW846 8082A	6/6/16 00:10	CMA	6/7/16 15:59	EGO	D
Aroclor-1232	0.036 U	U	mg/kg	0.036	0.0065	SW846 8082A	6/6/16 00:10	CMA	6/7/16 15:59	EGO	D
Aroclor-1242	0.036 U	U	mg/kg	0.036	0.0097	SW846 8082A	6/6/16 00:10	CMA	6/7/16 15:59	EGO	D
Aroclor-1248	0.036 U	U	mg/kg	0.036	0.0065	SW846 8082A	6/6/16 00:10	CMA	6/7/16 15:59	EGO	D
Aroclor-1254	0.036 U	U	mg/kg	0.036	0.0065	SW846 8082A	6/6/16 00:10	CMA	6/7/16 15:59	EGO	D
Aroclor-1260	0.036 U	U	mg/kg	0.036	0.0065	SW846 8082A	6/6/16 00:10	CMA	6/7/16 15:59	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	88.5		%	49 - 115		SW846 8082A	6/6/16 00:10	CMA	6/7/16 15:59	EGO	D
Tetrachloro-m-xylene (S)	76.6		%	27 - 137		SW846 8082A	6/6/16 00:10	CMA	6/7/16 15:59	EGO	D
PESTICIDES											
Aldrin	9.2 U	U	ug/kg	9.2	3.0	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
alpha-BHC	9.2 U	U	ug/kg	9.2	0.81	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
beta-BHC	9.2 U	U	ug/kg	9.2	0.97	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
delta-BHC	9.2 U	U	ug/kg	9.2	0.70	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
gamma-BHC	9.2 U	U	ug/kg	9.2	0.76	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
alpha-Chlordane	9.2 U	U	ug/kg	9.2	0.97	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
gamma-Chlordane	9.2 U	U	ug/kg	9.2	1.6	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
4,4'-DDD	17.8 U	U	ug/kg	17.8	1.5	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
4,4'-DDE	17.8 U	U	ug/kg	17.8	2.4	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
4,4'-DDT	5.0J	J	ug/kg	17.8	2.1	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Dieldrin	17.8 U	U	ug/kg	17.8	2.1	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Endosulfan I	9.2 U	U	ug/kg	9.2	1.1	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Endosulfan II	17.8 U	U	ug/kg	17.8	3.7	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Endosulfan Sulfate	17.8 U	U	ug/kg	17.8	1.2	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Endrin	17.8 U	U	ug/kg	17.8	1.3	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Endrin Aldehyde	17.8 U	U	ug/kg	17.8	1.9	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418001** Date Collected: 6/2/2016 10:30 Matrix: Solid

Sample ID: **CS-LF022** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Endrin Ketone	17.8 U	U	ug/kg	17.8	2.5	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Heptachlor	9.2 U	U	ug/kg	9.2	0.92	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Heptachlor Epoxide	9.2 U	U	ug/kg	9.2	0.92	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Methoxychlor	17.8 U	U	ug/kg	17.8	2.4	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Toxaphene	189 U	U	ug/kg	189	31.4	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	80.8		%	30 - 135		SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
Tetrachloro-m-xylene (S)	82.4		%	30 - 111		SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:22	RWS	D
HERBICIDES											
2,4-D	74.1 U	U	ug/kg	74.1	28.8	SW846 8151A	6/8/16 01:40	VLM	6/8/16 15:45	KJH	D
2,4-DB	74.1 U	U	ug/kg	74.1	39.8	SW846 8151A	6/8/16 01:40	VLM	6/8/16 15:45	KJH	D
Dalapon	74.1 U	U	ug/kg	74.1	18.8	SW846 8151A	6/8/16 01:40	VLM	6/8/16 15:45	KJH	D
Dicamba	74.1 U	U	ug/kg	74.1	26.6	SW846 8151A	6/8/16 01:40	VLM	6/8/16 15:45	KJH	D
Dichloroprop	74.1 U	U	ug/kg	74.1	29.9	SW846 8151A	6/8/16 01:40	VLM	6/8/16 15:45	KJH	D
Dinoseb	185 U	U	ug/kg	185	37.6	SW846 8151A	6/8/16 01:40	VLM	6/8/16 15:45	KJH	D
4-Nitrophenol	74.1 U	U	ug/kg	74.1	25.4	SW846 8151A	6/8/16 01:40	VLM	6/8/16 15:45	KJH	D
2,4,5-T	74.1 U	U	ug/kg	74.1	31.0	SW846 8151A	6/8/16 01:40	VLM	6/8/16 15:45	KJH	D
2,4,5-TP	74.1 U	U	ug/kg	74.1	34.3	SW846 8151A	6/8/16 01:40	VLM	6/8/16 15:45	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	58		%	36 - 113		SW846 8151A	6/8/16 01:40	VLM	6/8/16 15:45	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	6/7/16 17:00	MLM	6/8/16 01:30	LJF	D
Hexavalent Chromium	2.2 U	U	mg/kg	2.2	0.42	SW846 7196A	6/9/16 15:00	MLM	6/10/16 19:00	MLM	D
Ignitability	See comment	26				SW846 1030			6/7/16 11:00	SDL	D
Moisture	9.9		%	0.1	0.01	S2540G-11			6/6/16 10:58	SLC	F
Sulfide, Reactive	2.4J	J	ppm	6.2	1.2	SW846 7.3	6/7/16 17:00	MLM	6/7/16 20:15	MLM	D
Total Solids	90.1		%	0.1	0.01	S2540G-11			6/6/16 10:58	SLC	F
METALS											
Aluminum, Total	7710		mg/kg	10.1	3.4	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Antimony, Total	2.0 U	U	mg/kg	2.0	0.67	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Arsenic, Total	1.9J	J	mg/kg	2.0	0.67	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Barium, Total	18.6		mg/kg	1.0	0.34	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Beryllium, Total	1.0 U	U	mg/kg	1.0	0.34	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Cadmium, Total	0.50 U	U	mg/kg	0.50	0.17	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Calcium, Total	240		mg/kg	10.1	3.4	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418001** Date Collected: 6/2/2016 10:30 Matrix: Solid

Sample ID: **CS-LF022** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Chromium, Total	7.6		mg/kg	1.0	0.34	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Cobalt, Total	3.5		mg/kg	1.0	0.34	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Copper, Total	9.6		mg/kg	2.0	0.67	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Iron, Total	11800		mg/kg	10.1	3.4	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Lead, Total	13.7		mg/kg	2.0	0.67	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Magnesium, Total	1410		mg/kg	10.1	3.4	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Manganese, Total	232		mg/kg	1.0	0.34	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Mercury, Total	0.053 U	U	mg/kg	0.053	0.017	SW846 7471B	6/8/16 09:30	MNP	6/8/16 11:17	MNP	D2
Nickel, Total	8.5		mg/kg	2.0	0.67	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Potassium, Total	688		mg/kg	50.5	16.9	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Selenium, Total	5.0 U	U	mg/kg	5.0	1.7	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Silver, Total	0.50 U	U	mg/kg	0.50	0.17	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Sodium, Total	45.6J	J	mg/kg	50.5	16.9	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Thallium, Total	3.0 U	U	mg/kg	3.0	1.0	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Vanadium, Total	15.8		mg/kg	1.0	0.34	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1
Zinc, Total	22.5		mg/kg	2.0	0.67	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:47	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418002** Date Collected: 6/2/2016 00:00 Matrix: Solid

Sample ID: **DUP1-SOIL** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	484		ug/kg	16.8	7.7	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Acetonitrile	16.8 U	U	ug/kg	16.8	5.7	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Acrolein	83.8 U	U,1	ug/kg	83.8	11.1	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Acrylonitrile	16.8 U	U	ug/kg	16.8	4.5	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Benzene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Benzyl Chloride	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Bromobenzene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Bromochloromethane	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Bromodichloromethane	3.4 U	U	ug/kg	3.4	1.2	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Bromoform	3.4 U	U	ug/kg	3.4	0.87	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Bromomethane	3.4 U	U	ug/kg	3.4	0.87	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
2-Butanone	23.0		ug/kg	16.8	5.4	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
tert-Butyl Alcohol	16.8 U	U	ug/kg	16.8	5.9	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
n-Butylbenzene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
tert-Butylbenzene	7.1		ug/kg	3.4	0.92	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
sec-Butylbenzene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Carbon Disulfide	3.4 U	U	ug/kg	3.4	1.1	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Carbon Tetrachloride	3.4 U	U	ug/kg	3.4	0.85	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Chlorobenzene	3.4 U	U	ug/kg	3.4	0.85	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Chlorodibromomethane	3.4 U	U	ug/kg	3.4	1.1	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Chloroethane	8.4 U	U	ug/kg	8.4	1.4	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Chloroform	3.4 U	U	ug/kg	3.4	0.89	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Chloromethane	3.4 U	U	ug/kg	3.4	0.92	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Chloroprene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
3-Chloro-1-propene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
o-Chlorotoluene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
p-Chlorotoluene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Cyclohexane	3.4 U	U	ug/kg	3.4	0.85	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,2-Dibromo-3-chloropropane	8.4 U	U	ug/kg	8.4	4.9	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,2-Dibromoethane	3.4 U	U	ug/kg	3.4	0.90	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Dibromomethane	3.4 U	U	ug/kg	3.4	1.2	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,2-Dichlorobenzene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,3-Dichlorobenzene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,4-Dichlorobenzene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Dichlorodifluoromethane	3.4 U	U	ug/kg	3.4	1.1	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,1-Dichloroethane	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418002** Date Collected: 6/2/2016 00:00 Matrix: Solid

Sample ID: **DUP1-SOIL** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,1-Dichloroethene	3.4 U	U	ug/kg	3.4	0.87	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
cis-1,2-Dichloroethene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
trans-1,2-Dichloroethene	3.4 U	U	ug/kg	3.4	0.87	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,3-Dichloropropane	3.4 U	U	ug/kg	3.4	1.4	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
2,2-Dichloropropane	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,2-Dichloropropane	3.4 U	U	ug/kg	3.4	1.0	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,1-Dichloropropene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
cis-1,3-Dichloropropene	3.4 U	U	ug/kg	3.4	0.92	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
trans-1,3-Dichloropropene	3.4 U	U	ug/kg	3.4	0.97	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,4-Dioxane	126 U	U	ug/kg	126	29.8	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Ethyl Methacrylate	3.4 U	U	ug/kg	3.4	0.85	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Ethyl Acetate	128	5	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Ethylbenzene	3.4 U	U	ug/kg	3.4	1.1	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Freon 113	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
2-Hexanone	16.8 U	U	ug/kg	16.8	4.7	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Isobutyl alcohol	83.8 U	U	ug/kg	83.8	13.1	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Isopropylbenzene	3.4 U	U	ug/kg	3.4	1.0	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
p-Isopropyltoluene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Methacrylonitrile	3.4 U	U	ug/kg	3.4	0.90	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Methyl methacrylate	8.4 U	U	ug/kg	8.4	3.9	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Methyl acetate	3.4 U	U	ug/kg	3.4	0.99	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Methyl cyclohexane	3.4 U	U	ug/kg	3.4	0.94	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Methyl t-Butyl Ether	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
4-Methyl-2-Pentanone(MIBK)	14.3J	J	ug/kg	16.8	6.4	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Methylene Chloride	29.8	2,3	ug/kg	3.4	1.3	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Naphthalene	1.6J	J	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Propionitrile	16.8 U	U	ug/kg	16.8	7.0	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
n-Propylbenzene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Styrene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,1,1,2-Tetrachloroethane	3.4 U	U	ug/kg	3.4	1.1	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,1,2,2-Tetrachloroethane	3.4 U	U	ug/kg	3.4	0.94	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Tetrachloroethene	3.4 U	U	ug/kg	3.4	1.0	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Toluene	3.4 U	U	ug/kg	3.4	1.1	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Total Xylenes	10.1 U	U	ug/kg	10.1	2.3	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,2,4-Trichlorobenzene	8.4 U	U	ug/kg	8.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,1,1-Trichloroethane	3.4 U	U	ug/kg	3.4	1.0	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,1,2-Trichloroethane	3.4 U	U	ug/kg	3.4	0.94	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418002** Date Collected: 6/2/2016 00:00 Matrix: Solid

Sample ID: **DUP1-SOIL** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Trichlorofluoromethane	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,2,3-Trichloropropane	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,2,4-Trimethylbenzene	1.3J	J	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
1,3,5-Trimethylbenzene	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Vinyl Acetate	3.4 U	U,4	ug/kg	3.4	0.87	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Vinyl Chloride	3.4 U	U	ug/kg	3.4	0.84	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
o-Xylene	3.4 U	U	ug/kg	3.4	0.97	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
mp-Xylene	6.7 U	U	ug/kg	6.7	1.4	SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	74.9		%	56 - 124		SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
4-Bromofluorobenzene (S)	98.7		%	51 - 128		SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Dibromofluoromethane (S)	83.1		%	62 - 123		SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
Toluene-d8 (S)	89.3		%	59 - 131		SW846 8260C	6/4/16 01:16	TMP	6/9/16 17:54	TMP	B
SEMIVOLATILES											
Acenaphthene	52.0 U	U	ug/kg	52.0	6.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Acenaphthylene	52.0 U	U	ug/kg	52.0	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Acetophenone	104 U	U	ug/kg	104	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Aniline	208 U	U	ug/kg	208	15.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Anthracene	52.0 U	U	ug/kg	52.0	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Atrazine	104 U	U	ug/kg	104	11.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Benzaldehyde	208 U	U	ug/kg	208	17.7	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Benzidine	208 U	U	ug/kg	208	33.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Benzo(a)anthracene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Benzo(a)pyrene	52.0 U	U	ug/kg	52.0	4.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Benzo(b)fluoranthene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Benzo(g,h,i)perylene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Benzoic acid	561 U	U	ug/kg	561	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Benzo(k)fluoranthene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Benzyl Alcohol	104 U	U	ug/kg	104	18.7	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Biphenyl	104 U	U	ug/kg	104	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
4-Bromophenyl-phenylether	104 U	U	ug/kg	104	9.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Butylbenzylphthalate	104 U	U	ug/kg	104	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Caprolactam	208 U	U	ug/kg	208	18.7	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Carbazole	104 U	U	ug/kg	104	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
4-Chloro-3-methylphenol	208 U	U	ug/kg	208	10.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
4-Chloroaniline	208 U	U	ug/kg	208	12.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418002** Date Collected: 6/2/2016 00:00 Matrix: Solid

Sample ID: **DUP1-SOIL** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	104 U	U	ug/kg	104	9.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
bis(2-Chloroethyl)ether	104 U	U	ug/kg	104	13.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
bis(2-Chloroisopropyl)ether	104 U	U	ug/kg	104	15.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2-Chloronaphthalene	104 U	U	ug/kg	104	6.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2-Chlorophenol	208 U	U	ug/kg	208	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
4-Chlorophenyl-phenylether	104 U	U	ug/kg	104	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Chrysene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
mp-Cresol	208 U	U	ug/kg	208	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
o-Cresol	208 U	U	ug/kg	208	11.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Di-n-Butylphthalate	104 U	U	ug/kg	104	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Di-n-Octylphthalate	104 U	U	ug/kg	104	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Dibenzo(a,h)anthracene	52.0 U	U	ug/kg	52.0	6.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Dibenzofuran	104 U	U	ug/kg	104	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
1,2-Dichlorobenzene	104 U	U	ug/kg	104	9.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
1,3-Dichlorobenzene	104 U	U	ug/kg	104	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
1,4-Dichlorobenzene	104 U	U	ug/kg	104	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
3,3-Dichlorobenzidine	208 U	U	ug/kg	208	39.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2,4-Dichlorophenol	208 U	U	ug/kg	208	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2,6-Dichlorophenol	208 U	U	ug/kg	208	11.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Diethylphthalate	104 U	U	ug/kg	104	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Dimethoate	208 U	U	ug/kg	208	11.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2,4-Dimethylphenol	208 U	U	ug/kg	208	15.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Dimethylphthalate	104 U	U	ug/kg	104	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
1,2-Dinitrobenzene	104 U	U	ug/kg	104	19.8	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
1,4-Dinitrobenzene	104 U	U	ug/kg	104	14.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2,4-Dinitrophenol	208 U	U	ug/kg	208	41.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2,4-Dinitrotoluene	104 U	U	ug/kg	104	9.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2,6-Dinitrotoluene	104 U	U	ug/kg	104	12.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Diphenylamine	104 U	U	ug/kg	104	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
1,2-Diphenylhydrazine	104 U	U	ug/kg	104	9.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
bis(2-Ethylhexyl)phthalate	961	6	ug/kg	104	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Fluoranthene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Fluorene	52.0 U	U	ug/kg	52.0	6.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Hexachlorobenzene	104 U	U	ug/kg	104	11.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Hexachlorobutadiene	104 U	U	ug/kg	104	10.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Hexachlorocyclopentadiene	208 U	U	ug/kg	208	11.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Hexachloroethane	104 U	U	ug/kg	104	9.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Indeno(1,2,3-cd)pyrene	52.0 U	U	ug/kg	52.0	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418002** Date Collected: 6/2/2016 00:00 Matrix: Solid

Sample ID: **DUP1-SOIL** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	104 U	U	ug/kg	104	6.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2-Methyl-4,6-dinitrophenol	208 U	U	ug/kg	208	27.0	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2-Methylnaphthalene	104 U	U	ug/kg	104	5.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2-Naphthylamine	208 U	U	ug/kg	208	16.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Naphthalene	52.0 U	U	ug/kg	52.0	6.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2-Nitroaniline	208 U	U	ug/kg	208	12.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
3-Nitroaniline	208 U	U	ug/kg	208	20.8	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
4-Nitroaniline	208 U	U	ug/kg	208	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Nitrobenzene	104 U	U	ug/kg	104	12.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2-Nitrophenol	208 U	U	ug/kg	208	11.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
4-Nitrophenol	208 U	U	ug/kg	208	14.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
N-Nitrosodi-n-butylamine	104 U	U	ug/kg	104	11.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
N-Nitrosodiethylamine	104 U	U	ug/kg	104	13.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
N-Nitrosodimethylamine	104 U	U	ug/kg	104	15.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
N-Nitroso-di-n-propylamine	104 U	U	ug/kg	104	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
N-Nitrosodiphenylamine	104 U	U	ug/kg	104	8.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
N-Nitrosopyrrolidine	104 U	U	ug/kg	104	12.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Pentachlorobenzene	104 U	U	ug/kg	104	11.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Pentachlorophenol	208 U	U	ug/kg	208	27.0	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Phenanthrene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Phenol	208 U	U	ug/kg	208	10.4	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Pyrene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Pyridine	208 U	U	ug/kg	208	18.7	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Resorcinol	104 U	U	ug/kg	104	14.6	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
1,2,4,5-Tetrachlorobenzene	104 U	U	ug/kg	104	7.3	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2,3,4,6-Tetrachlorophenol	208 U	U	ug/kg	208	12.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
1,2,4-Trichlorobenzene	104 U	U	ug/kg	104	6.2	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2,4,5-Trichlorophenol	208 U	U	ug/kg	208	12.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2,4,6-Trichlorophenol	208 U	U	ug/kg	208	12.5	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	79.5		%	19 - 132	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2-Fluorobiphenyl (S)	81.2		%	40 - 110	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
2-Fluorophenol (S)	81.7		%	26 - 116	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Nitrobenzene-d5 (S)	85.5		%	38 - 112	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Phenol-d5 (S)	82.8		%	35 - 111	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D
Terphenyl-d14 (S)	89.8		%	45 - 126	SW846 8270D	6/6/16 03:55	CMA	6/6/16 15:01	CGS	D

PCBs

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418002** Date Collected: 6/2/2016 00:00 Matrix: Solid

Sample ID: **DUP1-SOIL** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	0.036 U	U	mg/kg	0.036	0.036	SW846 8082A	6/6/16 00:10	CMA	6/7/16 16:11	EGO	D
Aroclor-1016	0.036 U	U	mg/kg	0.036	0.0066	SW846 8082A	6/6/16 00:10	CMA	6/7/16 16:11	EGO	D
Aroclor-1221	0.036 U	U	mg/kg	0.036	0.0033	SW846 8082A	6/6/16 00:10	CMA	6/7/16 16:11	EGO	D
Aroclor-1232	0.036 U	U	mg/kg	0.036	0.0066	SW846 8082A	6/6/16 00:10	CMA	6/7/16 16:11	EGO	D
Aroclor-1242	0.036 U	U	mg/kg	0.036	0.0099	SW846 8082A	6/6/16 00:10	CMA	6/7/16 16:11	EGO	D
Aroclor-1248	0.036 U	U	mg/kg	0.036	0.0066	SW846 8082A	6/6/16 00:10	CMA	6/7/16 16:11	EGO	D
Aroclor-1254	0.036 U	U	mg/kg	0.036	0.0066	SW846 8082A	6/6/16 00:10	CMA	6/7/16 16:11	EGO	D
Aroclor-1260	0.036 U	U	mg/kg	0.036	0.0066	SW846 8082A	6/6/16 00:10	CMA	6/7/16 16:11	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	82.8		%	49 - 115		SW846 8082A	6/6/16 00:10	CMA	6/7/16 16:11	EGO	D
Tetrachloro-m-xylene (S)	75.4		%	27 - 137		SW846 8082A	6/6/16 00:10	CMA	6/7/16 16:11	EGO	D
PESTICIDES											
Aldrin	9.4 U	U	ug/kg	9.4	3.0	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
alpha-BHC	9.4 U	U	ug/kg	9.4	0.83	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
beta-BHC	9.4 U	U	ug/kg	9.4	0.99	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
delta-BHC	9.4 U	U	ug/kg	9.4	0.72	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
gamma-BHC	9.4 U	U	ug/kg	9.4	0.77	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
alpha-Chlordane	9.4 U	U	ug/kg	9.4	0.99	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
gamma-Chlordane	9.4 U	U	ug/kg	9.4	1.6	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
4,4'-DDD	18.2 U	U	ug/kg	18.2	1.5	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
4,4'-DDE	18.2 U	U	ug/kg	18.2	2.5	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
4,4'-DDT	3.2J	J	ug/kg	18.2	2.1	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Dieldrin	18.2 U	U	ug/kg	18.2	2.1	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Endosulfan I	9.4 U	U	ug/kg	9.4	1.2	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Endosulfan II	18.2 U	U	ug/kg	18.2	3.8	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Endosulfan Sulfate	18.2 U	U	ug/kg	18.2	1.2	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Endrin	18.2 U	U	ug/kg	18.2	1.3	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Endrin Aldehyde	18.2 U	U	ug/kg	18.2	2.0	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Endrin Ketone	18.2 U	U	ug/kg	18.2	2.5	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Heptachlor	9.4 U	U	ug/kg	9.4	0.94	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Heptachlor Epoxide	9.4 U	U	ug/kg	9.4	0.94	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Methoxychlor	18.2 U	U	ug/kg	18.2	2.4	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Toxaphene	193 U	U	ug/kg	193	32.0	SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	77.8		%	30 - 135		SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D
Tetrachloro-m-xylene (S)	75.3		%	30 - 111		SW846 8081B	6/6/16 00:10	CMA	6/7/16 15:38	RWS	D

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418002** Date Collected: 6/2/2016 00:00 Matrix: Solid

Sample ID: **DUP1-SOIL** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
HERBICIDES											
2,4-D	365 U	U	ug/kg	365	142	SW846 8151A	6/8/16 01:40	VLM	6/9/16 15:27	KJH	D
2,4-DB	365 U	U	ug/kg	365	196	SW846 8151A	6/8/16 01:40	VLM	6/9/16 15:27	KJH	D
Dalapon	365 U	U	ug/kg	365	92.7	SW846 8151A	6/8/16 01:40	VLM	6/9/16 15:27	KJH	D
Dicamba	365 U	U	ug/kg	365	131	SW846 8151A	6/8/16 01:40	VLM	6/9/16 15:27	KJH	D
Dichloroprop	365 U	U	ug/kg	365	147	SW846 8151A	6/8/16 01:40	VLM	6/9/16 15:27	KJH	D
Dinoseb	911 U	U	ug/kg	911	185	SW846 8151A	6/8/16 01:40	VLM	6/9/16 15:27	KJH	D
4-Nitrophenol	365 U	U	ug/kg	365	125	SW846 8151A	6/8/16 01:40	VLM	6/9/16 15:27	KJH	D
2,4,5-T	365 U	U	ug/kg	365	153	SW846 8151A	6/8/16 01:40	VLM	6/9/16 15:27	KJH	D
2,4,5-TP	365 U	U	ug/kg	365	169	SW846 8151A	6/8/16 01:40	VLM	6/9/16 15:27	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	55.4		%	36 - 113		SW846 8151A	6/8/16 01:40	VLM	6/9/16 15:27	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	6/7/16 17:00	MLM	6/8/16 01:30	LJF	D
Hexavalent Chromium	2.2 U	U	mg/kg	2.2	0.43	SW846 7196A	6/9/16 15:00	MLM	6/10/16 19:00	MLM	D
Ignitability	See comment	7				SW846 1030			6/7/16 11:00	SDL	D
Moisture	9.8		%	0.1	0.01	S2540G-11			6/6/16 10:58	SLC	E
Sulfide, Reactive	3.2J	J	ppm	6.2	1.2	SW846 7.3	6/7/16 17:00	MLM	6/7/16 20:15	MLM	D
Total Solids	90.2		%	0.1	0.01	S2540G-11			6/6/16 10:58	SLC	E
METALS											
Aluminum, Total	8190		mg/kg	10.7	3.6	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Antimony, Total	2.1 U	U	mg/kg	2.1	0.71	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Arsenic, Total	1.8J	J	mg/kg	2.1	0.71	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Barium, Total	20.2		mg/kg	1.1	0.36	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Beryllium, Total	1.1 U	U	mg/kg	1.1	0.36	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Cadmium, Total	0.53 U	U	mg/kg	0.53	0.18	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Calcium, Total	351		mg/kg	10.7	3.6	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Chromium, Total	8.7		mg/kg	1.1	0.36	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Cobalt, Total	4.2		mg/kg	1.1	0.36	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Copper, Total	10.4		mg/kg	2.1	0.71	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Iron, Total	13800		mg/kg	10.7	3.6	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Lead, Total	15.3		mg/kg	2.1	0.71	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Magnesium, Total	1600		mg/kg	10.7	3.6	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Manganese, Total	288		mg/kg	1.1	0.36	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Mercury, Total	0.055 U	U	mg/kg	0.055	0.018	SW846 7471B	6/8/16 09:30	MNP	6/8/16 11:18	MNP	D2

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

Lab ID: **2148418002** Date Collected: 6/2/2016 00:00 Matrix: Solid

Sample ID: **DUP1-SOIL** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Nickel, Total	10.1		mg/kg	2.1	0.71	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Potassium, Total	664		mg/kg	53.3	17.8	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Selenium, Total	5.3 U	U	mg/kg	5.3	1.8	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Silver, Total	0.53 U	U	mg/kg	0.53	0.18	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Sodium, Total	59.9		mg/kg	53.3	17.8	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Thallium, Total	3.2 U	U	mg/kg	3.2	1.1	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Vanadium, Total	17.6		mg/kg	1.1	0.36	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1
Zinc, Total	26.4		mg/kg	2.1	0.71	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:50	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2148418001	1	CS-LF022	SW846 8260C	Acrolein
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 8.7 and the control limits were 18 to 139.				
2148418001	2	CS-LF022	SW846 8260C	Methylene Chloride
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 160 and the control limits were 68 to 133.				
2148418001	3	CS-LF022	SW846 8260C	Methylene Chloride
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 134 and the control limits were 68 to 133.				
2148418001	4	CS-LF022	SW846 8260C	Methyl acetate
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 163 and the control limits were 70 to 130.				
2148418001	5	CS-LF022	SW846 8260C	Methyl acetate
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 424 and the control limits were 70 to 130.				
2148418001	6	CS-LF022	SW846 8260C	Methyl acetate
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The RPD was reported as 88.8 and the upper control limit is 40.				
2148418001	7	CS-LF022	SW846 8260C	Methyl t-Butyl Ether
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 127 and the control limits were 70 to 118.				
2148418001	8	CS-LF022	SW846 8260C	Vinyl Acetate
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Vinyl Acetate. The % Recovery was reported as 23.1 and the control limits were 30 to 154.				
2148418001	9	CS-LF022	SW846 8260C	Ethyl Acetate
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Ethyl Acetate. The RPD was reported as 86.2 and the upper control limit is 40.				
2148418001	10	CS-LF022	SW846 8270D	Resorcinol
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Resorcinol. The % Recovery was reported as 0 and the control limits were 38 to 130.				
2148418001	11	CS-LF022	SW846 8270D	Aniline
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Aniline. The % Recovery was reported as 8.84 and the control limits were 39 to 110.				
2148418001	12	CS-LF022	SW846 8270D	Benzyl Alcohol
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Benzyl Alcohol. The % Recovery was reported as 0 and the control limits were 57 to 107.				
2148418001	13	CS-LF022	SW846 8270D	Nitrobenzene
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Nitrobenzene. The % Recovery was reported as 115 and the control limits were 53 to 108.				
2148418001	14	CS-LF022	SW846 8270D	bis(2-Chloroethoxy)methane
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte bis(2-Chloroethoxy)methane. The % Recovery was reported as 109 and the control limits were 56 to 108.				
2148418001	15	CS-LF022	SW846 8270D	2,6-Dichlorophenol
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte 2,6-Dichlorophenol. The % Recovery was reported as 47.8 and the control limits were 53 to 108.				
2148418001	16	CS-LF022	SW846 8270D	Hexachlorocyclopentadiene
The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Hexachlorocyclopentadiene. The % Recovery was reported as 2.34 and the control limits were 33 to 109.				

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

2148418001	17	CS-LF022	SW846 8270D	2-Naphthylamine

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte 2-Naphthylamine. The % Recovery was reported as .93 and the control limits were 15 to 116.

2148418001	18	CS-LF022	SW846 8270D	2-Methyl-4,6-dinitrophenol

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte 2-Methyl-4,6-dinitrophenol. The % Recovery was reported as 52.8 and the control limits were 53 to 131.

2148418001	19	CS-LF022	SW846 8270D	Benzidine

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Benzidine. The % Recovery was reported as 0 and the control limits were 10 to 114.

2148418001	20	CS-LF022	SW846 8270D	3,3-Dichlorobenzidine

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 22.6 and the control limits were 27 to 106.

2148418001	21	CS-LF022	SW846 8270D	Benzo(k)fluoranthene

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Benzo(k)fluoranthene. The % Recovery was reported as 130 and the control limits were 62 to 113.

2148418001	22	CS-LF022	SW846 8270D	Indeno(1,2,3-cd)pyrene

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Indeno(1,2,3-cd)pyrene. The % Recovery was reported as 156 and the control limits were 62 to 113.

2148418001	23	CS-LF022	SW846 8270D	Dibenzo(a,h)anthracene

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Dibenzo(a,h)anthracene. The % Recovery was reported as 128 and the control limits were 64 to 117.

2148418001	24	CS-LF022	SW846 8270D	Benzo(g,h,i)perylene

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Benzo(g,h,i)perylene. The % Recovery was reported as 123 and the control limits were 61 to 118.

2148418001	25	CS-LF022	SW846 8270D	N-Nitrosodiethylamine

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte N-Nitrosodiethylamine. The % Recovery was reported as 55.7 and the control limits were 57 to 104.

2148418001	26	CS-LF022	SW846 1030	Ignitability

According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)

2148418002	1	DUP1-SOIL	SW846 8260C	Acrolein

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 8.7 and the control limits were 18 to 139.

2148418002	2	DUP1-SOIL	SW846 8260C	Methylene Chloride

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 160 and the control limits were 68 to 133.

2148418002	3	DUP1-SOIL	SW846 8260C	Methylene Chloride

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 134 and the control limits were 68 to 133.

2148418002	4	DUP1-SOIL	SW846 8260C	Vinyl Acetate

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Vinyl Acetate. The % Recovery was reported as 23.1 and the control limits were 30 to 154.

2148418002	5	DUP1-SOIL	SW846 8260C	Ethyl Acetate

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Ethyl Acetate. The RPD was reported as 86.2 and the upper control limit is 40.

2148418002	6	DUP1-SOIL	SW846 8270D	bis(2-Ethylhexyl)phthalate

The QC sample type DUP for method SW846 8270D was outside the control limits for the analyte bis(2-Ethylhexyl)phthalate. The RPD was reported as 129 and the upper control limit is 21.

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148418 CBR010|2016-MALTA NY SITE-WAST

2148418002	7	DUP1-SOIL	SW846 1030	Ignitability

According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)

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F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier: FedEx
Tracking #: 4708 3091

* 2 1 4 8 4 1 8 *

Co. Name: CB&I Environmental & Infrastructure Inc.
Contact (Report to): Brian Neumann Phone:
Address: 13 British American Blvd Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area / 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] Y brian.neumann@cbi.com
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs 8260C	SVOCs 8270D	PCBs 8082A	Pesticides 8081B	Herbicides 8151A	Reactivity/ Ignitability/ Total Metals 7471B/ 6010C	Hexavalent Chromium 7196A	Moisture
1 CS-LF022		6-2-16	1030	G	SO	3				3			1
2 DUP1-SOIL		6-2-16	—	G	SO	3				3			1
3													
4													
5													
6													
7													
8													

Enter Number of Containers Per Analysis

***Container Type: Encore / CG
***Container Size: — / 8oz
***Preservative: — / None

ANALYSES/METHOD REQUESTED

(completed by Sample Receiving)
Performed by:
Cooler Temp: 5°C
Therm. ID: TA-352
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
1	Y	Y	Y	Y	Y
2	N	N	N	N	N

	Custody seals Present?	(if present) Seals Intact?	Received on Ice?	COC/Labels complete/accurate?	Container in good condition?
1	Y	Y	Y	Y	Y
2	N	N	N	N	N

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: *see QAPP

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 CBI	6-2-16	1609	2	6/2/16	1609
3	6/2/16	1700	4	6/3/16	0915
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
Enter PWSID No.

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: A=Air; DW=Drinking Water; GW=Groundwater; O=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

June 13, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2148419**
Purchase Order:		Workorder ID:	**CBR011|2016-MALTA NY SITE-WAST**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Friday, June 3, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2148419 CBR011|2016-MALTA NY SITE-WAST

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2148419001	CS-LF023	Other	6/2/2016 13:50	6/3/2016 09:15	Collected by Client
2148419002	TB4	NY Non-Potable Water	6/2/2016 00:00	6/3/2016 09:15	Collected by Client

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SAMPLE SUMMARY

Workorder: 2148419 CBR011|2016-MALTA NY SITE-WAST

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2148419 CBR011|2016-MALTA NY SITE-WAST

Lab ID: **2148419001** Date Collected: 6/2/2016 13:50 Matrix: Other

Sample ID: **CS-LF023** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	29300		ug/kg	22900	7110	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Benzene	13700		ug/kg	2290	528	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Bromochloromethane	2290 U	U	ug/kg	2290	734	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Bromodichloromethane	2290 U	U	ug/kg	2290	619	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Bromoform	2290 U	U	ug/kg	2290	917	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Bromomethane	2290 U	U	ug/kg	2290	894	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
2-Butanone	22900 U	U	ug/kg	22900	4130	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Carbon Disulfide	2290 U	U	ug/kg	2290	528	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Carbon Tetrachloride	2290 U	U	ug/kg	2290	711	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Chlorobenzene	2290 U	U	ug/kg	2290	436	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Chlorodibromomethane	2290 U	U	ug/kg	2290	1030	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Chloroethane	8310		ug/kg	2290	757	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Chloroform	105000		ug/kg	2290	482	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Chloromethane	736J	J	ug/kg	2290	711	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Cyclohexane	53200		ug/kg	2290	665	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,2-Dibromo-3-chloropropane	16100 U	U	ug/kg	16100	3440	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,2-Dibromoethane	2290 U	U	ug/kg	2290	642	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,2-Dichlorobenzene	2290 U	U	ug/kg	2290	872	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,3-Dichlorobenzene	2290 U	U	ug/kg	2290	573	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,4-Dichlorobenzene	2290 U	U	ug/kg	2290	619	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Dichlorodifluoromethane	2290 U	U	ug/kg	2290	757	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,1-Dichloroethane	2290 U	U	ug/kg	2290	642	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,2-Dichloroethane	2290 U	U	ug/kg	2290	734	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,1-Dichloroethene	2290 U	U	ug/kg	2290	665	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
cis-1,2-Dichloroethene	2290 U	U	ug/kg	2290	734	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
trans-1,2-Dichloroethene	2290 U	U	ug/kg	2290	596	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,2-Dichloropropane	2290 U	U	ug/kg	2290	550	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
cis-1,3-Dichloropropene	2290 U	U	ug/kg	2290	711	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
trans-1,3-Dichloropropene	2290 U	U	ug/kg	2290	665	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,4-Dioxane	734000 U	U	ug/kg	734000	135000	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Ethylbenzene	117000		ug/kg	2290	780	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Freon 113	2290 U	U	ug/kg	2290	596	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
2-Hexanone	11500 U	U	ug/kg	11500	2980	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Isopropylbenzene	77600		ug/kg	2290	505	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Methyl acetate	4590 U	U	ug/kg	4590	734	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Methyl cyclohexane	288000		ug/kg	2290	688	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B

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ANALYTICAL RESULTS

Workorder: 2148419 CBR011|2016-MALTA NY SITE-WAST

Lab ID: **2148419001** Date Collected: 6/2/2016 13:50 Matrix: Other

Sample ID: **CS-LF023** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	2290 U	U	ug/kg	2290	757	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
4-Methyl-2-Pentanone(MIBK)	11500 U	U	ug/kg	11500	3440	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Methylene Chloride	2660		ug/kg	2290	1030	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Styrene	2290 U	U	ug/kg	2290	550	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,1,2,2-Tetrachloroethane	2290 U	U	ug/kg	2290	780	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Tetrachloroethene	2290 U	U	ug/kg	2290	803	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Toluene	164000		ug/kg	2290	528	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Total Xylenes	918000		ug/kg	6880	1510	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,2,3-Trichlorobenzene	6880 U	U	ug/kg	6880	2130	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,2,4-Trichlorobenzene	4590 U	U	ug/kg	4590	1880	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,1,1-Trichloroethane	2290 U	U	ug/kg	2290	505	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
1,1,2-Trichloroethane	2290 U	U	ug/kg	2290	757	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Trichloroethene	2290 U	U	ug/kg	2290	757	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Trichlorofluoromethane	2290 U	U	ug/kg	2290	550	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Vinyl Chloride	2290 U	U	ug/kg	2290	688	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
o-Xylene	289000		ug/kg	2290	757	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
mp-Xylene	629000		ug/kg	4590	1190	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	78.9		%	71 - 146	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
4-Bromofluorobenzene (S)	106		%	46 - 138	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Dibromofluoromethane (S)	84		%	42 - 143	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B
Toluene-d8 (S)	90.2		%	54 - 141	SW846 8260C	6/4/16 01:01	DD	6/7/16 20:29	DD	B

SEMIVOLATILES

Acenaphthene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Acenaphthylene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Anthracene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Benzo(a)anthracene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Benzo(a)pyrene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Benzo(b)fluoranthene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Benzo(g,h,i)perylene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Benzo(k)fluoranthene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
4-Bromophenyl-phenylether	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Butylbenzylphthalate	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Carbazole	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
4-Chloro-3-methylphenol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
4-Chloroaniline	39500 U	U,1,2	ug/kg	39500	19800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148419 CBR011|2016-MALTA NY SITE-WAST

Lab ID: **2148419001** Date Collected: 6/2/2016 13:50 Matrix: Other

Sample ID: **CS-LF023** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
bis(2-Chloroethyl)ether	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
bis(2-Chloroisopropyl)ether	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2-Chloronaphthalene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2-Chlorophenol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
4-Chlorophenyl-phenylether	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Chrysene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
mp-Cresol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
o-Cresol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Di-n-Butylphthalate	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Di-n-Octylphthalate	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Dibenzo(a,h)anthracene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Dibenzofuran	41500		ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
1,2-Dichlorobenzene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
1,3-Dichlorobenzene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
1,4-Dichlorobenzene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
3,3-Dichlorobenzidine	59300 U	U	ug/kg	59300	29700	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2,4-Dichlorophenol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Diethylphthalate	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2,4-Dimethylphenol	129000		ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Dimethylphthalate	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2,4-Dinitrophenol	119000 U	U	ug/kg	119000	59300	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2,4-Dinitrotoluene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2,6-Dinitrotoluene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
bis(2-Ethylhexyl)phthalate	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Fluoranthene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Fluorene	41100		ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Hexachlorobenzene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Hexachlorobutadiene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Hexachlorocyclopentadiene	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Hexachloroethane	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Indeno(1,2,3-cd)pyrene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Isophorone	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2-Methyl-4,6-dinitrophenol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2-Methylnaphthalene	2650000		ug/kg	148000	74200	SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:52	DHF	B
Naphthalene	1380000		ug/kg	148000	74200	SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:52	DHF	B
2-Nitroaniline	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
3-Nitroaniline	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148419 CBR011|2016-MALTA NY SITE-WAST

Lab ID: **2148419001** Date Collected: 6/2/2016 13:50 Matrix: Other

Sample ID: **CS-LF023** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Nitroaniline	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Nitrobenzene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2-Nitrophenol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
4-Nitrophenol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
N-Nitroso-di-n-propylamine	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
N-Nitrosodiphenylamine	17800 U	U	ug/kg	17800	8900	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Pentachlorophenol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Phenanthrene	15800		ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Phenol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Pyrene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
1,2,4-Trichlorobenzene	14800 U	U	ug/kg	14800	7420	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2,4,5-Trichlorophenol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2,4,6-Trichlorophenol	29700 U	U	ug/kg	29700	14800	SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	93.7		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2,4,6-Tribromophenol (S)	92.8		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:52	DHF	B
2-Fluorobiphenyl (S)	98.9		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
2-Fluorobiphenyl (S)	108		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:52	DHF	B
2-Fluorophenol (S)	97		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:52	DHF	B
2-Fluorophenol (S)	105		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Nitrobenzene-d5 (S)	130		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Nitrobenzene-d5 (S)	121		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:52	DHF	B
Phenol-d5 (S)	87.6		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:52	DHF	B
Phenol-d5 (S)	96.8		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
Terphenyl-d14 (S)	103		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/9/16 04:52	DHF	B
Terphenyl-d14 (S)	98		%	50 - 150		SW846 8270D	6/7/16 09:40	MPP	6/7/16 16:00	CGS	B
PESTICIDES											
Aldrin	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
alpha-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
beta-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
delta-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
gamma-BHC	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Chlordane	988 U	U	ug/kg	988		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
alpha-Chlordane	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
gamma-Chlordane	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
4,4'-DDD	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
4,4'-DDE	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B

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ANALYTICAL RESULTS

Workorder: 2148419 CBR011|2016-MALTA NY SITE-WAST

Lab ID: **2148419001** Date Collected: 6/2/2016 13:50 Matrix: Other

Sample ID: **CS-LF023** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4,4'-DDT	49.4 U	U,4	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Dieldrin	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Endosulfan I	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Endosulfan II	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Endosulfan Sulfate	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Endrin	49.4 U	U,3	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Endrin Aldehyde	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Endrin Ketone	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Heptachlor	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Heptachlor Epoxide	49.4 U	U	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Methoxychlor	49.4 U	U,5	ug/kg	49.4		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Toxaphene	1980 U	U	ug/kg	1980		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	29.3		%	70 - 130		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
Tetrachloro-m-xylene (S)	50.9		%	70 - 130		SW846 8081B	6/7/16 09:40	MPP	6/8/16 16:51	RWS	B
PCBs											
Aroclor-1016	0.92 U	U	mg/kg	0.92	0.13	600/4-81-045	6/8/16 06:56	CHS	6/8/16 11:15	EGO	B
Aroclor-1221	0.92 U	U	mg/kg	0.92	0.37	600/4-81-045	6/8/16 06:56	CHS	6/8/16 11:15	EGO	B
Aroclor-1232	0.92 U	U	mg/kg	0.92	0.33	600/4-81-045	6/8/16 06:56	CHS	6/8/16 11:15	EGO	B
Aroclor-1242	0.92 U	U	mg/kg	0.92	0.31	600/4-81-045	6/8/16 06:56	CHS	6/8/16 11:15	EGO	B
Aroclor-1248	0.92 U	U	mg/kg	0.92	0.32	600/4-81-045	6/8/16 06:56	CHS	6/8/16 11:15	EGO	B
Aroclor-1254	0.92 U	U	mg/kg	0.92	0.27	600/4-81-045	6/8/16 06:56	CHS	6/8/16 11:15	EGO	B
Aroclor-1260	0.92 U	U	mg/kg	0.92	0.11	600/4-81-045	6/8/16 06:56	CHS	6/8/16 11:15	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	87.8		%	64 - 150		600/4-81-045	6/8/16 06:56	CHS	6/8/16 11:15	EGO	B
Tetrachloro-m-xylene (S)	116		%	74 - 152		600/4-81-045	6/8/16 06:56	CHS	6/8/16 11:15	EGO	B
HERBICIDES											
2,4-D	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 13:16	KJH	B
2,4-DB	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 13:16	KJH	B
Dalapon	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 13:16	KJH	B
Dicamba	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 13:16	KJH	B
Dichloroprop	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 13:16	KJH	B
Dinoseb	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 13:16	KJH	B
Pentachlorophenol	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 13:16	KJH	B
2,4,5-T	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 13:16	KJH	B
2,4,5-TP	1980 U	U	ug/kg	1980		SW846 8151A	6/7/16 09:40	MPP	6/8/16 13:16	KJH	B

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ANALYTICAL RESULTS

Workorder: 2148419 CBR011|2016-MALTA NY SITE-WAST

Lab ID: **2148419001** Date Collected: 6/2/2016 13:50 Matrix: Other

Sample ID: **CS-LF023** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	34.6		%			SW846 8151A	6/7/16 09:40	MPP	6/8/16 13:16	KJH	B
WET CHEMISTRY											
Corrosivity as pH	6.50	8	pH_Units			SW846 9045D			6/4/16 03:03	MSA	B
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	6/7/16 17:00	MLM	6/8/16 01:30	LJF	B
Flashpoint/Ignitability	See comment	6,7	Deg. F			SW-846 1010A			6/7/16 07:00	SDL	B
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.39	SW846 7196A	6/9/16 15:00	MLM	6/10/16 19:00	MLM	B
Sulfide, Reactive	2.0J	J	ppm	6.2	1.2	SW846 7.3	6/7/16 17:00	MLM	6/7/16 20:15	MLM	B
METALS											
Aluminum, Total	16.3J	J	mg/kg	19.2	6.4	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Antimony, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Arsenic, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Barium, Total	8.6		mg/kg	1.9	0.64	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Beryllium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Cadmium, Total	0.96 U	U	mg/kg	0.96	0.32	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Calcium, Total	34.2		mg/kg	19.2	6.4	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Chromium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Cobalt, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Copper, Total	2.7J	J	mg/kg	3.8	1.3	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Iron, Total	93.8		mg/kg	19.2	6.4	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Lead, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Magnesium, Total	19.2 U	U	mg/kg	19.2	6.4	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Manganese, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Mercury, Total	0.012 U	U	mg/kg	0.012	0.0040	SW846 7471B	6/8/16 09:30	MNP	6/8/16 11:19	MNP	B2
Nickel, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Potassium, Total	96.2 U	U	mg/kg	96.2	32.1	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Selenium, Total	4.3J	J	mg/kg	9.6	3.2	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Silver, Total	0.96 U	U	mg/kg	0.96	0.32	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Sodium, Total	96.2 U	U	mg/kg	96.2	32.1	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Thallium, Total	5.8 U	U	mg/kg	5.8	1.9	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Vanadium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1
Zinc, Total	3.0J	J	mg/kg	3.8	1.3	SW846 6010C	6/6/16 10:00	JPS	6/7/16 05:53	TSS	B1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148419 CBR011|2016-MALTA NY SITE-WAST

Lab ID: **2148419001** Date Collected: 6/2/2016 13:50 Matrix: Other

Sample ID: **CS-LF023** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2148419 CBR011|2016-MALTA NY SITE-WAST

Lab ID: **2148419002** Date Collected: 6/2/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB4** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	3.5J	J	ug/L	10.0	3.1	SW846 8260C		6/7/16 15:16	TMP	B
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/7/16 15:16	TMP	B
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/7/16 15:16	TMP	B
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/7/16 15:16	TMP	B
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/7/16 15:16	TMP	B
Bromomethane	0.45J	J	ug/L	1.0	0.39	SW846 8260C		6/7/16 15:16	TMP	B
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/7/16 15:16	TMP	B
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/7/16 15:16	TMP	B
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/7/16 15:16	TMP	B
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/7/16 15:16	TMP	B
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/7/16 15:16	TMP	B
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/7/16 15:16	TMP	B
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/7/16 15:16	TMP	B
Chloromethane	0.51J	J	ug/L	1.0	0.31	SW846 8260C		6/7/16 15:16	TMP	B
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/7/16 15:16	TMP	B
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/7/16 15:16	TMP	B
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/7/16 15:16	TMP	B
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/7/16 15:16	TMP	B
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/7/16 15:16	TMP	B
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/7/16 15:16	TMP	B
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/7/16 15:16	TMP	B
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/7/16 15:16	TMP	B
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/7/16 15:16	TMP	B
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/7/16 15:16	TMP	B
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/7/16 15:16	TMP	B
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/7/16 15:16	TMP	B
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/7/16 15:16	TMP	B
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/7/16 15:16	TMP	B
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/7/16 15:16	TMP	B
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/7/16 15:16	TMP	B
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/7/16 15:16	TMP	B
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/7/16 15:16	TMP	B
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/7/16 15:16	TMP	B
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/7/16 15:16	TMP	B
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		6/7/16 15:16	TMP	B
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/7/16 15:16	TMP	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2148419 CBR011|2016-MALTA NY SITE-WAST

Lab ID: **2148419002** Date Collected: 6/2/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB4** Date Received: 6/3/2016 09:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 15:16	TMP	B
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C			6/7/16 15:16	TMP	B
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C			6/7/16 15:16	TMP	B
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/7/16 15:16	TMP	B
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C			6/7/16 15:16	TMP	B
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C			6/7/16 15:16	TMP	B
Toluene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C			6/7/16 15:16	TMP	B
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C			6/7/16 15:16	TMP	B
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C			6/7/16 15:16	TMP	B
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C			6/7/16 15:16	TMP	B
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			6/7/16 15:16	TMP	B
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 15:16	TMP	B
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 15:16	TMP	B
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/7/16 15:16	TMP	B
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			6/7/16 15:16	TMP	B
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/7/16 15:16	TMP	B
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			6/7/16 15:16	TMP	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.2		%	62 - 133	SW846 8260C			6/7/16 15:16	TMP	B
4-Bromofluorobenzene (S)	98		%	79 - 114	SW846 8260C			6/7/16 15:16	TMP	B
Dibromofluoromethane (S)	87.4		%	78 - 116	SW846 8260C			6/7/16 15:16	TMP	B
Toluene-d8 (S)	98.9		%	76 - 127	SW846 8260C			6/7/16 15:16	TMP	B

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2148419001	1	CS-LF023	SW846 8270D	4-Chloroaniline
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 29.5 and the control limits were 50 to 200.				
2148419001	2	CS-LF023	SW846 8270D	4-Chloroaniline
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 35.7 and the control limits were 50 to 200.				
2148419001	3	CS-LF023	SW846 8081B	Endrin
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased low 27% in the bracketing CCV. Data for this compound may have been impacted.				
2148419001	4	CS-LF023	SW846 8081B	4,4'-DDT
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased low 22% in the bracketing CCV. Data for this compound may have been impacted.				
2148419001	5	CS-LF023	SW846 8081B	Methoxychlor
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased low 27% in the bracketing CCV. Data for this compound may have been impacted.				
2148419001	6	CS-LF023	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2148419001	7	CS-LF023	SW-846 1010A	Flashpoint/Ignitability
Sample did not flash up to 200 degrees F				
2148419001	8	CS-LF023	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				

Monday, June 13, 2016 4:47:53 PM

ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
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F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1

Courier: FedEx

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* 2 1 4 8 4 1 9 *

Co. Name: CBI Environmental & Infrastructure

Contact (Report to): Brian. Neumann Phone (518)-785-2354

Address: 13 British American Blvd Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area/ 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:

[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] -Y brian.neumann@CBI.com

Fax? [ ] -Y No.:

***Container Type	CG	AG	AG	AG	PL	← PL →	AG			
***Container Size	40 mL	1L	1L	1L	500mL	← 500mL →	1L			
*** Preservative	None									→

ANALYSES/METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs 8260C	SVOCs 8270D	Pesticides 8081B	PCBs 8082A	Metals (Total) 6010C/7471B (mercury) + Cr+6 7196A	Reactivity/Corrosivity	Ignitability 1030	Herbicides 8151A	Enter Number of Containers Per Analysis
1 ~~LF-AA.~~														
2 CS-LF023		6-2-16	1350	G	OL	3	1	1	1	1	← 1 →		1	
3 TB4		6-2-16	—	—		3								
4														
5														
6														
7	6/3/16 1709													
8														

Cooler Temp: 5.0C

Therm. ID: TL-25

No. of Coolers:

Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	N (Y)	N (Y)	N (Y)	N Y	

	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
	(Y) N	(Y) N	(Y) N	(Y) N	(Y) N

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: * See QAPP

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 CBI	6-2-16	1609	2	6/2/16	1609
3	6/2/16	1700	4	6/3/16	0915
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other

EDDs Required? [ ] If yes, format type:

DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

Other

EXCEPTIONS

ALS FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite

**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 01-2013

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June 15, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2149113**
Purchase Order:		Workorder ID:	**CBR015|MaltaRocketFuelArea/154**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, June 7, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2149113001	CS-LF024	Other	6/3/2016 11:10	6/7/2016 15:34	Collected by Client
2149113002	TB6	NY Non-Potable Water	6/3/2016 00:00	6/7/2016 15:34	Collected by Client

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SAMPLE SUMMARY

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Sample Comments

Lab ID: 2149113001 **Sample ID:** CS-LF024 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8151 herbicide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Lab ID: 2149113002 **Sample ID:** TB6 **Sample Type:** SAMPLE

Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Lab ID: **2149113001** Date Collected: 6/3/2016 11:10 Matrix: Other

Sample ID: **CS-LF024** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	5440000 0		ug/kg	971000 0	301000 0	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Benzene	971000 U	U	ug/kg	971000	223000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Bromochloromethane	971000 U	U	ug/kg	971000	311000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Bromodichloromethane	971000 U	U	ug/kg	971000	262000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Bromoform	971000 U	U	ug/kg	971000	388000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Bromomethane	687000J	J	ug/kg	971000	379000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
2-Butanone	9710000 U	U	ug/kg	971000 0	175000 0	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Carbon Disulfide	971000 U	U	ug/kg	971000	223000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Carbon Tetrachloride	971000 U	U	ug/kg	971000	301000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Chlorobenzene	971000 U	U	ug/kg	971000	184000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Chlorodibromomethane	971000 U	U	ug/kg	971000	437000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Chloroethane	971000 U	U	ug/kg	971000	320000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Chloroform	971000 U	U	ug/kg	971000	204000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Chloromethane	542000J	J	ug/kg	971000	301000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Cyclohexane	971000 U	U	ug/kg	971000	282000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,2-Dibromo-3-chloropropane	6800000 U	U	ug/kg	680000 0	146000 0	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,2-Dibromoethane	971000 U	U	ug/kg	971000	272000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,2-Dichlorobenzene	971000 U	U	ug/kg	971000	369000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,3-Dichlorobenzene	971000 U	U	ug/kg	971000	243000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,4-Dichlorobenzene	971000 U	U	ug/kg	971000	262000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Dichlorodifluoromethane	971000 U	U	ug/kg	971000	320000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,1-Dichloroethane	971000 U	U	ug/kg	971000	272000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,2-Dichloroethane	971000 U	U	ug/kg	971000	311000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,1-Dichloroethene	971000 U	U	ug/kg	971000	282000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
cis-1,2-Dichloroethene	971000 U	U	ug/kg	971000	311000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
trans-1,2-Dichloroethene	971000 U	U	ug/kg	971000	252000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,2-Dichloropropane	971000 U	U	ug/kg	971000	233000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
cis-1,3-Dichloropropene	971000 U	U	ug/kg	971000	301000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
trans-1,3-Dichloropropene	971000 U	U	ug/kg	971000	282000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,4-Dioxane	3110000 0 U	U	ug/kg	311000 000	572000 00	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Ethylbenzene	971000 U	U	ug/kg	971000	330000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Freon 113	971000 U	U	ug/kg	971000	252000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
2-Hexanone	4850000 U	U	ug/kg	485000 0	126000 0	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Isopropylbenzene	971000 U	U	ug/kg	971000	214000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1

ANALYTICAL RESULTS

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Lab ID: **2149113001** Date Collected: 6/3/2016 11:10 Matrix: Other

Sample ID: **CS-LF024** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl acetate	1940000 U	U	ug/kg	1940000	311000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Methyl cyclohexane	971000 U	U	ug/kg	971000	291000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Methyl t-Butyl Ether	971000 U	U	ug/kg	971000	320000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
4-Methyl-2-Pentanone(MIBK)	4850000 U	U	ug/kg	4850000	1460000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Methylene Chloride	971000 U	U	ug/kg	971000	437000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Styrene	971000 U	U	ug/kg	971000	233000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,1,2,2-Tetrachloroethane	971000 U	U	ug/kg	971000	330000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Tetrachloroethene	971000 U	U	ug/kg	971000	340000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Toluene	971000 U	U	ug/kg	971000	223000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Total Xylenes	2910000 U	U	ug/kg	2910000	641000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,2,3-Trichlorobenzene	1940000 U	U	ug/kg	1940000	903000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,2,4-Trichlorobenzene	1940000 U	U	ug/kg	1940000	796000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,1,1-Trichloroethane	971000 U	U	ug/kg	971000	214000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
1,1,2-Trichloroethane	971000 U	U	ug/kg	971000	320000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Trichloroethene	971000 U	U	ug/kg	971000	320000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Trichlorofluoromethane	971000 U	U	ug/kg	971000	233000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Vinyl Chloride	971000 U	U	ug/kg	971000	291000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
o-Xylene	971000 U	U	ug/kg	971000	320000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
mp-Xylene	1940000 U	U	ug/kg	1940000	505000	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	95.6		%	71 - 146	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
4-Bromofluorobenzene (S)	99.7		%	46 - 138	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Dibromofluoromethane (S)	84.1		%	42 - 143	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
Toluene-d8 (S)	85.7		%	54 - 141	SW846 8260C	6/8/16 04:04	TMP	6/14/16 20:51	TMP	F1
SEMIVOLATILES										
Acenaphthene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Acenaphthylene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Anthracene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Benzo(a)anthracene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Benzo(a)pyrene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Benzo(b)fluoranthene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Benzo(g,h,i)perylene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Benzo(k)fluoranthene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
4-Bromophenyl-phenylether	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Lab ID: **2149113001** Date Collected: 6/3/2016 11:10 Matrix: Other

Sample ID: **CS-LF024** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Butylbenzylphthalate	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Carbazole	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
4-Chloro-3-methylphenol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
4-Chloroaniline	39600 U	U,3,4	ug/kg	39600	19800	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
bis(2-Chloroethoxy)methane	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
bis(2-Chloroethyl)ether	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
bis(2-Chloroisopropyl)ether	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2-Chloronaphthalene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2-Chlorophenol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
4-Chlorophenyl-phenylether	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Chrysene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
mp-Cresol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
o-Cresol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Di-n-Butylphthalate	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Di-n-Octylphthalate	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Dibenzo(a,h)anthracene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Dibenzofuran	20000		ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
1,2-Dichlorobenzene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
1,3-Dichlorobenzene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
1,4-Dichlorobenzene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
3,3-Dichlorobenzidine	59500 U	U,1,2	ug/kg	59500	29700	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2,4-Dichlorophenol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Diethylphthalate	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2,4-Dimethylphenol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Dimethylphthalate	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2,4-Dinitrophenol	119000 U	U	ug/kg	119000	59500	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2,4-Dinitrotoluene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2,6-Dinitrotoluene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
bis(2-Ethylhexyl)phthalate	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Fluoranthene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Fluorene	21800		ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Hexachlorobenzene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Hexachlorobutadiene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Hexachlorocyclopentadiene	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Hexachloroethane	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Indeno(1,2,3-cd)pyrene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Isophorone	537000		ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Lab ID: **2149113001** Date Collected: 6/3/2016 11:10 Matrix: Other

Sample ID: **CS-LF024** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Methyl-4,6-dinitrophenol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2-Methylnaphthalene	948000		ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Naphthalene	500000		ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2-Nitroaniline	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
3-Nitroaniline	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
4-Nitroaniline	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Nitrobenzene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2-Nitrophenol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
4-Nitrophenol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
N-Nitroso-di-n-propylamine	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
N-Nitrosodiphenylamine	17800 U	U	ug/kg	17800	8920	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Pentachlorophenol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Phenanthrene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Phenol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Pyrene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
1,2,4-Trichlorobenzene	14900 U	U	ug/kg	14900	7430	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2,4,5-Trichlorophenol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2,4,6-Trichlorophenol	29700 U	U	ug/kg	29700	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	99.7		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2-Fluorobiphenyl (S)	95.5		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
2-Fluorophenol (S)	94.6		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Nitrobenzene-d5 (S)	110		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Phenol-d5 (S)	74		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
Terphenyl-d14 (S)	100		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:06	EGO	B
PESTICIDES											
Aldrin	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
alpha-BHC	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
beta-BHC	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
delta-BHC	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
gamma-BHC	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Chlordane	932 U	U	ug/kg	932		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
alpha-Chlordane	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
gamma-Chlordane	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
4,4'-DDD	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
4,4'-DDE	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
4,4'-DDT	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Lab ID: **2149113001** Date Collected: 6/3/2016 11:10 Matrix: Other

Sample ID: **CS-LF024** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Dieldrin	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Endosulfan I	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Endosulfan II	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Endosulfan Sulfate	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Endrin	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Endrin Aldehyde	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Endrin Ketone	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Heptachlor	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Heptachlor Epoxide	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Methoxychlor	46.6 U	U	ug/kg	46.6		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Toxaphene	1860 U	U	ug/kg	1860		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	58.6		%	70 - 130		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
Tetrachloro-m-xylene (S)	72.1		%	70 - 130		SW846 8081B	6/9/16 09:40	MPP	6/10/16 20:00	RWS	B
PCBs											
Aroclor-1016	0.99 U	U	mg/kg	0.99	0.14	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:42	EGO	B
Aroclor-1221	0.99 U	U	mg/kg	0.99	0.40	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:42	EGO	B
Aroclor-1232	0.99 U	U	mg/kg	0.99	0.36	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:42	EGO	B
Aroclor-1242	0.99 U	U	mg/kg	0.99	0.34	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:42	EGO	B
Aroclor-1248	0.99 U	U	mg/kg	0.99	0.35	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:42	EGO	B
Aroclor-1254	0.99 U	U	mg/kg	0.99	0.29	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:42	EGO	B
Aroclor-1260	0.99 U	U	mg/kg	0.99	0.12	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:42	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	110		%	64 - 150		600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:42	EGO	B
Tetrachloro-m-xylene (S)	133		%	74 - 152		600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:42	EGO	B
HERBICIDES											
2,4-D	8910 U	U	ug/kg	8910		SW846 8151A	6/9/16 09:40	VLM	6/13/16 11:52	KJH	B
2,4-DB	8910 U	U	ug/kg	8910		SW846 8151A	6/9/16 09:40	VLM	6/13/16 11:52	KJH	B
Dalapon	8910 U	U	ug/kg	8910		SW846 8151A	6/9/16 09:40	VLM	6/13/16 11:52	KJH	B
Dicamba	8910 U	U	ug/kg	8910		SW846 8151A	6/9/16 09:40	VLM	6/13/16 11:52	KJH	B
Dichloroprop	8910 U	U	ug/kg	8910		SW846 8151A	6/9/16 09:40	VLM	6/13/16 11:52	KJH	B
Dinoseb	8910 U	U	ug/kg	8910		SW846 8151A	6/9/16 09:40	VLM	6/13/16 11:52	KJH	B
Pentachlorophenol	8910 U	U	ug/kg	8910		SW846 8151A	6/9/16 09:40	VLM	6/13/16 11:52	KJH	B
2,4,5-T	8910 U	U	ug/kg	8910		SW846 8151A	6/9/16 09:40	VLM	6/13/16 11:52	KJH	B
2,4,5-TP	8910 U	U	ug/kg	8910		SW846 8151A	6/9/16 09:40	VLM	6/13/16 11:52	KJH	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*

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ANALYTICAL RESULTS

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Lab ID: **2149113001** Date Collected: 6/3/2016 11:10 Matrix: Other

Sample ID: **CS-LF024** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2,4-Dichlorophenylacetic acid (S)	26.8		%			SW846 8151A	6/9/16 09:40	VLM	6/13/16 11:52	KJH	B
WET CHEMISTRY											
Corrosivity as pH	2.06	7	pH_Units			SW846 9045D			6/8/16 04:23	MSA	B
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	6/11/16 16:00	MLM	6/12/16 21:39	LJF	B
Flashpoint/Ignitability	See comment	5,6	Deg. F			SW-846 1010A			6/13/16 06:00	SDL	B
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.39	SW846 7196A	6/9/16 15:00	MLM	6/10/16 19:00	MLM	B
Sulfide, Reactive	51.6		ppm	6.2	1.2	SW846 7.3	6/11/16 16:00	MLM	6/12/16 21:00	MLM	B
METALS											
Aluminum, Total	777		mg/kg	20.0	6.7	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Antimony, Total	4.0 U	U	mg/kg	4.0	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Arsenic, Total	4.0 U	U	mg/kg	4.0	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Barium, Total	4.0		mg/kg	2.0	0.67	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Beryllium, Total	2.0 U	U	mg/kg	2.0	0.67	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Cadmium, Total	1.0 U	U	mg/kg	1.0	0.33	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Calcium, Total	48.3		mg/kg	20.0	6.7	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Chromium, Total	1.8J	J	mg/kg	2.0	0.67	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Cobalt, Total	2.0 U	U	mg/kg	2.0	0.67	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Copper, Total	6.2		mg/kg	4.0	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Iron, Total	1590		mg/kg	20.0	6.7	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Lead, Total	4.7		mg/kg	4.0	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Magnesium, Total	95.7		mg/kg	20.0	6.7	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Manganese, Total	22.3		mg/kg	2.0	0.67	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Mercury, Total	0.045 U	U	mg/kg	0.045	0.014	SW846 7471B	6/8/16 09:30	MNP	6/8/16 12:00	MNP	B2
Nickel, Total	1.4J	J	mg/kg	4.0	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Potassium, Total	89.1J	J	mg/kg	100	33.4	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Selenium, Total	7.9J	J	mg/kg	10.0	3.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Silver, Total	1.0 U	U	mg/kg	1.0	0.33	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Sodium, Total	100 U	U	mg/kg	100	33.4	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Thallium, Total	6.0 U	U	mg/kg	6.0	2.0	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Vanadium, Total	1.5J	J	mg/kg	2.0	0.67	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1
Zinc, Total	218		mg/kg	4.0	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:50	TSS	B1

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ANALYTICAL RESULTS

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Lab ID:	**2149113001**	Date Collected:	6/3/2016 11:10	Matrix:	Other
Sample ID:	**CS-LF024**	Date Received:	6/7/2016 15:34		

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Lab ID: **2149113002** Date Collected: 6/3/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB6** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		6/10/16 13:23	DD	A
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/10/16 13:23	DD	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 13:23	DD	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/10/16 13:23	DD	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/10/16 13:23	DD	A
Bromomethane	0.59J	J	ug/L	1.0	0.39	SW846 8260C		6/10/16 13:23	DD	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/10/16 13:23	DD	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/10/16 13:23	DD	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 13:23	DD	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/10/16 13:23	DD	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/10/16 13:23	DD	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 13:23	DD	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/10/16 13:23	DD	A
Chloromethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 13:23	DD	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 13:23	DD	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/10/16 13:23	DD	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/10/16 13:23	DD	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/10/16 13:23	DD	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/10/16 13:23	DD	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/10/16 13:23	DD	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 13:23	DD	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/10/16 13:23	DD	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 13:23	DD	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 13:23	DD	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 13:23	DD	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/10/16 13:23	DD	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/10/16 13:23	DD	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 13:23	DD	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 13:23	DD	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/10/16 13:23	DD	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/10/16 13:23	DD	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/10/16 13:23	DD	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/10/16 13:23	DD	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/10/16 13:23	DD	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		6/10/16 13:23	DD	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/10/16 13:23	DD	A

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ANALYTICAL RESULTS

Workorder: 2149113 CBR015|MaltaRocketFuelArea/154

Lab ID: **2149113002** Date Collected: 6/3/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB6** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/10/16 13:23	DD	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C			6/10/16 13:23	DD	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C			6/10/16 13:23	DD	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/10/16 13:23	DD	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C			6/10/16 13:23	DD	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C			6/10/16 13:23	DD	A
Toluene	0.26J	J	ug/L	1.0	0.23	SW846 8260C			6/10/16 13:23	DD	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C			6/10/16 13:23	DD	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C			6/10/16 13:23	DD	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C			6/10/16 13:23	DD	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			6/10/16 13:23	DD	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/10/16 13:23	DD	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/10/16 13:23	DD	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/10/16 13:23	DD	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			6/10/16 13:23	DD	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/10/16 13:23	DD	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			6/10/16 13:23	DD	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91.9		%	62 - 133	SW846 8260C			6/10/16 13:23	DD	A
4-Bromofluorobenzene (S)	90.6		%	79 - 114	SW846 8260C			6/10/16 13:23	DD	A
Dibromofluoromethane (S)	85.2		%	78 - 116	SW846 8260C			6/10/16 13:23	DD	A
Toluene-d8 (S)	84.5		%	76 - 127	SW846 8260C			6/10/16 13:23	DD	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2149113001	1	CS-LF024	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 41.1 and the control limits were 50 to 200.				
2149113001	2	CS-LF024	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 38.6 and the control limits were 50 to 200.				
2149113001	3	CS-LF024	SW846 8270D	4-Chloroaniline
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 42.3 and the control limits were 50 to 200.				
2149113001	4	CS-LF024	SW846 8270D	4-Chloroaniline
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 41.6 and the control limits were 50 to 200.				
2149113001	5	CS-LF024	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is considered to be ignitable. (Ref 40 CFR 261.21)				
2149113001	6	CS-LF024	SW-846 1010A	Flashpoint/Ignitability
Sample flashed at 62 degrees F (Acetone)				
2149113001	7	CS-LF024	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				

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Middletown, PA 17057
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F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Courier:

Tracking #: 6440 8

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

* 2 1 4 9 1 1 3 *

Co. Name: CB&I Environmental & Infrastructure Inc.

Contact (Report to): Brian Neumann Phone:

Address:
13 British American Blvd
Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area / 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] Y brian.neumann@CBI.com
Fax? [ ] Y No.:

DA 6/6/16

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	***Container Type	***Container Size	***Preservative	VOCs 8260C	SVOCs 8270D	Pesticides 8081B	PCBs 8082A	Metals (Total) 6010C/ 7471B (mercury) and Cr+6 7196A	Reactivity/Corrosivity	Ignitability 1030	Herbicides 8151A		
									ANALYSES/METHOD REQUESTED									
									Enter Number of Containers Per Analysis									
1 CS-LF024	*WARNING-See Attached	6-1-16	1110			CG	40ml	None	3	1	1	1	1	← 1 →		1		
2 TB6		6-1-16	—	—	—				3									
3																		
4																		
5																		
6																		
7	6/7/16 2100																	
8																		

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	N	N	N	N	N
	Y	Y	Y	Y	Y

	Custody seals Present?	(if present) Seals Intact?	Received on Ice?	COC/Labels complete/accurate?	Container in good condition?
	N	N	N	N	N
	X	X	X	X	X

Cooler Temp: 5.0
Therm. ID: 35
No. of Coolers:
Notes:

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: DA 6/6/16

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 CBE	6-1-16	1445	2 Brian McGuirk	6/3/16	1445
3 Brian McGuirk/ALS	6/6/16	5:00pm	4	6/7	1534
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
⇨ ENTER PWSID No.

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 01-2013

WARNING: Sample CS-LF024 is highly volatile and may contain or may be composed mostly of Acetone or other solvent.

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-4-16
Container ID #	LF024
Original Container Location	
Original Container Type	55-gal double barrel steel
Original Container Size	55-gal
Original Container Condition	Large hole in lid, large hole under lid
Original Container Labels / Markings	None
Outer / Overpack Container Type	
Spill or Leak? (Y/N)	
Vapor? (Y/N)	No
PID Reading (ppm)	5
LEL Reading (%)	Ø
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	
Color	
Notes	Likely same liquid as found in LF021 (i.e. Acetone) but no label; highly volatile
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF024 / 6-4-16 @ 1110
Soil Under Contaner Sample ID # / Time	———
Terrain	
Weather Conditions	
Photograph(s)? (Y/N)	

Approach readings only – meter not used in headspace due to likelyhood of maxing meter and needing recallibration.

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

June 15, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2149111**
Purchase Order:		Workorder ID:	**CBR013|Malta Rocket Fuel Area**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, June 7, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2149111001	CS-LF026	Other	6/3/2016 14:00	6/7/2016 15:34	Collected by Client
2149111002	TB7	NY Non-Potable Water	6/3/2016 00:00	6/7/2016 15:34	Collected by Client

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SAMPLE SUMMARY

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Sample Comments

Lab ID: 2149111001 **Sample ID:** CS-LF026 **Sample Type:** SAMPLE

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by the level of non-target compounds.
This sample was collected in a soil jar for the volatile analysis. The sample was received and prepared by Method 5035 after the 48-hour holding time.

Lab ID: 2149111002 **Sample ID:** TB7 **Sample Type:** SAMPLE

Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.

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ANALYTICAL RESULTS

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Lab ID: **2149111001** Date Collected: 6/3/2016 14:00 Matrix: Other

Sample ID: **CS-LF026** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	89300 U	U	ug/kg	89300	27700	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Benzene	5590J	J	ug/kg	8930	2050	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Bromochloromethane	8930 U	U	ug/kg	8930	2860	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Bromodichloromethane	8930 U	U	ug/kg	8930	2410	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Bromoform	8930 U	U	ug/kg	8930	3570	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Bromomethane	4160J	J	ug/kg	8930	3480	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
2-Butanone	89300 U	U	ug/kg	89300	16100	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Carbon Disulfide	8930 U	U	ug/kg	8930	2050	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Carbon Tetrachloride	8930 U	U	ug/kg	8930	2770	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Chlorobenzene	8930 U	U	ug/kg	8930	1700	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Chlorodibromomethane	8930 U	U	ug/kg	8930	4020	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Chloroethane	8930 U	U	ug/kg	8930	2950	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Chloroform	2120J	J	ug/kg	8930	1880	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Chloromethane	8270J	J	ug/kg	8930	2770	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Cyclohexane	13900		ug/kg	8930	2590	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,2-Dibromo-3-chloropropane	62500 U	U	ug/kg	62500	13400	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,2-Dibromoethane	8930 U	U	ug/kg	8930	2500	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,2-Dichlorobenzene	8930 U	U	ug/kg	8930	3390	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,3-Dichlorobenzene	8930 U	U	ug/kg	8930	2230	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,4-Dichlorobenzene	8930 U	U	ug/kg	8930	2410	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Dichlorodifluoromethane	8930 U	U	ug/kg	8930	2950	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,1-Dichloroethane	8930 U	U	ug/kg	8930	2500	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,2-Dichloroethane	8930 U	U	ug/kg	8930	2860	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,1-Dichloroethene	8930 U	U	ug/kg	8930	2590	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
cis-1,2-Dichloroethene	8930 U	U	ug/kg	8930	2860	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
trans-1,2-Dichloroethene	8930 U	U	ug/kg	8930	2320	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,2-Dichloropropane	8930 U	U	ug/kg	8930	2140	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
cis-1,3-Dichloropropene	8930 U	U	ug/kg	8930	2770	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
trans-1,3-Dichloropropene	8930 U	U	ug/kg	8930	2590	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,4-Dioxane	2860000 U	U	ug/kg	2860000	526000	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Ethylbenzene	48000		ug/kg	8930	3040	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Freon 113	8930 U	U	ug/kg	8930	2320	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
2-Hexanone	44600 U	U	ug/kg	44600	11600	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Isopropylbenzene	32600		ug/kg	8930	1960	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Methyl acetate	17900 U	U	ug/kg	17900	2860	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Methyl cyclohexane	85000		ug/kg	8930	2680	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1

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ANALYTICAL RESULTS

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Lab ID: **2149111001** Date Collected: 6/3/2016 14:00 Matrix: Other

Sample ID: **CS-LF026** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	8930 U	U	ug/kg	8930	2950	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
4-Methyl-2-Pentanone(MIBK)	44600 U	U	ug/kg	44600	13400	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Methylene Chloride	8930 U	U	ug/kg	8930	4020	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Styrene	8930 U	U	ug/kg	8930	2140	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,1,2,2-Tetrachloroethane	8930 U	U	ug/kg	8930	3040	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Tetrachloroethene	8930 U	U	ug/kg	8930	3130	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Toluene	55200		ug/kg	8930	2050	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Total Xylenes	453000		ug/kg	26800	5890	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,2,3-Trichlorobenzene	17900 U	U	ug/kg	17900	8300	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,2,4-Trichlorobenzene	17900 U	U	ug/kg	17900	7320	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,1,1-Trichloroethane	8930 U	U	ug/kg	8930	1960	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
1,1,2-Trichloroethane	8930 U	U	ug/kg	8930	2950	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Trichloroethene	8930 U	U	ug/kg	8930	2950	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Trichlorofluoromethane	8930 U	U	ug/kg	8930	2140	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Vinyl Chloride	8930 U	U	ug/kg	8930	2680	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
o-Xylene	142000		ug/kg	8930	2950	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
mp-Xylene	310000		ug/kg	17900	4640	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	82		%	71 - 146	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
4-Bromofluorobenzene (S)	96.1		%	46 - 138	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Dibromofluoromethane (S)	72.6		%	42 - 143	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1
Toluene-d8 (S)	93.3		%	54 - 141	SW846 8260C	6/8/16 04:02	TMP	6/15/16 12:35	TMP	C1

SEMIVOLATILES

Acenaphthene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Acenaphthylene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Anthracene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Benzo(a)anthracene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Benzo(a)pyrene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Benzo(b)fluoranthene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Benzo(g,h,i)perylene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Benzo(k)fluoranthene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
4-Bromophenyl-phenylether	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Butylbenzylphthalate	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Carbazole	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
4-Chloro-3-methylphenol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
4-Chloroaniline	39700 U	U,6,7	ug/kg	39700	19800	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Lab ID: **2149111001** Date Collected: 6/3/2016 14:00 Matrix: Other

Sample ID: **CS-LF026** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
bis(2-Chloroethyl)ether	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
bis(2-Chloroisopropyl)ether	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2-Chloronaphthalene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2-Chlorophenol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
4-Chlorophenyl-phenylether	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Chrysene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
mp-Cresol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
o-Cresol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Di-n-Butylphthalate	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Di-n-Octylphthalate	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Dibenzo(a,h)anthracene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Dibenzofuran	43700		ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
1,2-Dichlorobenzene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
1,3-Dichlorobenzene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
1,4-Dichlorobenzene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
3,3-Dichlorobenzidine	59500 U	U,4,5	ug/kg	59500	29800	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2,4-Dichlorophenol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Diethylphthalate	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2,4-Dimethylphenol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Dimethylphthalate	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2,4-Dinitrophenol	119000 U	U	ug/kg	119000	59500	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2,4-Dinitrotoluene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2,6-Dinitrotoluene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
bis(2-Ethylhexyl)phthalate	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Fluoranthene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Fluorene	50900		ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Hexachlorobenzene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Hexachlorobutadiene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Hexachlorocyclopentadiene	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Hexachloroethane	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Indeno(1,2,3-cd)pyrene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Isophorone	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2-Methyl-4,6-dinitrophenol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2-Methylnaphthalene	1280000		ug/kg	149000	74400	SW846 8270D	6/9/16 10:50	MPP	6/9/16 21:43	EGO	B
Naphthalene	654000		ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2-Nitroaniline	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
3-Nitroaniline	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B

ANALYTICAL RESULTS

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Lab ID: **2149111001** Date Collected: 6/3/2016 14:00 Matrix: Other

Sample ID: **CS-LF026** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Nitroaniline	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Nitrobenzene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2-Nitrophenol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
4-Nitrophenol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
N-Nitroso-di-n-propylamine	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
N-Nitrosodiphenylamine	17900 U	U	ug/kg	17900	8930	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Pentachlorophenol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Phenanthrene	59800		ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Phenol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Pyrene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
1,2,4-Trichlorobenzene	14900 U	U	ug/kg	14900	7440	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2,4,5-Trichlorophenol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2,4,6-Trichlorophenol	29800 U	U	ug/kg	29800	14900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	88.7		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 21:43	EGO	B
2,4,6-Tribromophenol (S)	100		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2-Fluorobiphenyl (S)	98.9		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2-Fluorobiphenyl (S)	88.5		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 21:43	EGO	B
2-Fluorophenol (S)	103		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
2-Fluorophenol (S)	104		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 21:43	EGO	B
Nitrobenzene-d5 (S)	85.5		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 21:43	EGO	B
Nitrobenzene-d5 (S)	111		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Phenol-d5 (S)	104		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Phenol-d5 (S)	90.2		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 21:43	EGO	B
Terphenyl-d14 (S)	100		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 18:13	EGO	B
Terphenyl-d14 (S)	85.6		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 21:43	EGO	B
PESTICIDES											
Aldrin	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
alpha-BHC	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
beta-BHC	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
delta-BHC	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
gamma-BHC	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Chlordane	965 U	U	ug/kg	965		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
alpha-Chlordane	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
gamma-Chlordane	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
4,4'-DDD	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
4,4'-DDE	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Lab ID: **2149111001** Date Collected: 6/3/2016 14:00 Matrix: Other

Sample ID: **CS-LF026** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4,4'-DDT	50.0		ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Dieldrin	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Endosulfan I	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Endosulfan II	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Endosulfan Sulfate	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Endrin	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Endrin Aldehyde	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Endrin Ketone	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Heptachlor	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Heptachlor Epoxide	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Methoxychlor	48.2 U	U	ug/kg	48.2		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Toxaphene	1930 U	U	ug/kg	1930		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	43.9		%	70 - 130		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
Tetrachloro-m-xylene (S)	85.9		%	70 - 130		SW846 8081B	6/9/16 09:40	MPP	6/10/16 19:44	RWS	B
PCBs											
Aroclor-1016	0.97 U	U	mg/kg	0.97	0.14	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:08	EGO	B
Aroclor-1221	0.97 U	U	mg/kg	0.97	0.39	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:08	EGO	B
Aroclor-1232	0.97 U	U	mg/kg	0.97	0.35	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:08	EGO	B
Aroclor-1242	0.97 U	U	mg/kg	0.97	0.33	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:08	EGO	B
Aroclor-1248	0.97 U	U	mg/kg	0.97	0.34	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:08	EGO	B
Aroclor-1254	0.97 U	U	mg/kg	0.97	0.28	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:08	EGO	B
Aroclor-1260	0.97 U	U	mg/kg	0.97	0.12	600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:08	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	76.6		%	64 - 150		600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:08	EGO	B
Tetrachloro-m-xylene (S)	123		%	74 - 152		600/4-81-045	6/8/16 06:56	CHS	6/8/16 12:08	EGO	B
HERBICIDES											
2,4-D	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 11:45	KJH	B
2,4-DB	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 11:45	KJH	B
Dalapon	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 11:45	KJH	B
Dicamba	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 11:45	KJH	B
Dichloroprop	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 11:45	KJH	B
Dinoseb	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 11:45	KJH	B
Pentachlorophenol	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 11:45	KJH	B
2,4,5-T	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 11:45	KJH	B
2,4,5-TP	1980 U	U	ug/kg	1980		SW846 8151A	6/9/16 09:40	VLM	6/10/16 11:45	KJH	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Lab ID: **2149111001** Date Collected: 6/3/2016 14:00 Matrix: Other

Sample ID: **CS-LF026** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	18.8		%			SW846 8151A	6/9/16 09:40	VLM	6/10/16 11:45	KJH	B
WET CHEMISTRY											
Corrosivity as pH	6.62	3	pH_Units			SW846 9045D			6/9/16 01:44	MSA	B
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	6/11/16 16:00	MLM	6/12/16 21:39	LJF	B
Flashpoint/Ignitability	See comment	1,2	Deg. F			SW-846 1010A			6/13/16 06:00	SDL	B
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.39	SW846 7196A	6/9/16 15:00	MLM	6/10/16 19:00	MLM	B
Sulfide, Reactive	5.6J	J	ppm	6.2	1.2	SW846 7.3	6/11/16 16:00	MLM	6/12/16 21:00	MLM	B
METALS											
Aluminum, Total	19.2 U	U	mg/kg	19.2	6.4	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Antimony, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Arsenic, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Barium, Total	7.1		mg/kg	1.9	0.64	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Beryllium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Cadmium, Total	0.96 U	U	mg/kg	0.96	0.32	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Calcium, Total	32.8		mg/kg	19.2	6.4	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Chromium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Cobalt, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Copper, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Iron, Total	108		mg/kg	19.2	6.4	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Lead, Total	1.4J	J	mg/kg	3.8	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Magnesium, Total	19.2 U	U	mg/kg	19.2	6.4	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Manganese, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Mercury, Total	0.025 U	U	mg/kg	0.025	0.0080	SW846 7471B	6/8/16 09:30	MNP	6/8/16 11:58	MNP	B2
Nickel, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Potassium, Total	96.2 U	U	mg/kg	96.2	32.1	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Selenium, Total	9.6 U	U	mg/kg	9.6	3.2	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Silver, Total	0.96 U	U	mg/kg	0.96	0.32	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Sodium, Total	96.2 U	U	mg/kg	96.2	32.1	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Thallium, Total	5.8 U	U	mg/kg	5.8	1.9	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Vanadium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1
Zinc, Total	1.3J	J	mg/kg	3.8	1.3	SW846 6010C	6/8/16 11:00	JPS	6/13/16 04:43	TSS	B1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Lab ID: **2149111001** Date Collected: 6/3/2016 14:00 Matrix: Other

Sample ID: **CS-LF026** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Lab ID: **2149111002** Date Collected: 6/3/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB7** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		6/10/16 12:40	DD	B
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/10/16 12:40	DD	B
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 12:40	DD	B
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/10/16 12:40	DD	B
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/10/16 12:40	DD	B
Bromomethane	0.46J	J	ug/L	1.0	0.39	SW846 8260C		6/10/16 12:40	DD	B
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/10/16 12:40	DD	B
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/10/16 12:40	DD	B
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 12:40	DD	B
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/10/16 12:40	DD	B
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/10/16 12:40	DD	B
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 12:40	DD	B
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/10/16 12:40	DD	B
Chloromethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 12:40	DD	B
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 12:40	DD	B
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/10/16 12:40	DD	B
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/10/16 12:40	DD	B
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/10/16 12:40	DD	B
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/10/16 12:40	DD	B
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/10/16 12:40	DD	B
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 12:40	DD	B
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/10/16 12:40	DD	B
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 12:40	DD	B
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 12:40	DD	B
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 12:40	DD	B
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/10/16 12:40	DD	B
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/10/16 12:40	DD	B
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 12:40	DD	B
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 12:40	DD	B
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/10/16 12:40	DD	B
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/10/16 12:40	DD	B
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/10/16 12:40	DD	B
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/10/16 12:40	DD	B
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/10/16 12:40	DD	B
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		6/10/16 12:40	DD	B
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/10/16 12:40	DD	B

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ANALYTICAL RESULTS

Workorder: 2149111 CBR013|Malta Rocket Fuel Area

Lab ID: **2149111002** Date Collected: 6/3/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB7** Date Received: 6/7/2016 15:34

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 12:40	DD	B
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C		6/10/16 12:40	DD	B
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/10/16 12:40	DD	B
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/10/16 12:40	DD	B
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/10/16 12:40	DD	B
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		6/10/16 12:40	DD	B
Toluene	0.24J	J	ug/L	1.0	0.23	SW846 8260C		6/10/16 12:40	DD	B
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C		6/10/16 12:40	DD	B
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C		6/10/16 12:40	DD	B
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C		6/10/16 12:40	DD	B
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/10/16 12:40	DD	B
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 12:40	DD	B
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 12:40	DD	B
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/10/16 12:40	DD	B
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/10/16 12:40	DD	B
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 12:40	DD	B
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C		6/10/16 12:40	DD	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	93.9		%	62 - 133	SW846 8260C			6/10/16 12:40	DD	B
4-Bromofluorobenzene (S)	89.9		%	79 - 114	SW846 8260C			6/10/16 12:40	DD	B
Dibromofluoromethane (S)	85.1		%	78 - 116	SW846 8260C			6/10/16 12:40	DD	B
Toluene-d8 (S)	84.2		%	76 - 127	SW846 8260C			6/10/16 12:40	DD	B

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2149111001	1	CS-LF026	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is considered to be ignitable. (Ref 40 CFR 261.21)				
2149111001	2	CS-LF026	SW-846 1010A	Flashpoint/Ignitability
Sample flashed at 94 degrees F (Acetone)				
2149111001	3	CS-LF026	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				
2149111001	4	CS-LF026	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 41.1 and the control limits were 50 to 200.				
2149111001	5	CS-LF026	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 38.6 and the control limits were 50 to 200.				
2149111001	6	CS-LF026	SW846 8270D	4-Chloroaniline
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 42.3 and the control limits were 50 to 200.				
2149111001	7	CS-LF026	SW846 8270D	4-Chloroaniline
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 41.6 and the control limits were 50 to 200.				

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VAF

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Page 1 of 1

Courier:

Tracking #:

2149111

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Co. Name: CBBI Environmental & Infrastructure Inc

Contact (Report to): Phone:

Address:
13 British American Blvd
Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALS approval and surcharges. 5-day Date Required: Approved By:

Email? [X] Y brian.nuemann@CBI.com Fax? [ ] Y No.:

DA 6/6/16

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs 8260C	SVOCs 8270D	Pesticides 8081B	PCBs 8082A	Metals (Total) 6010C, Z7473 (mercury) and Cr+6 Z7196A	Reactivity/Corrosivity	Ignitability 1030	Herbicides 8151A
1 CS-LF026	* See notes below	6-1-16	1400	G	OL	2	1						
2 TB7		6-1-16	—	—		3							
3													
4													
5													
6													
7													
8													

Enter Number of Containers Per Analysis

Not enough volume

6/7/16 2051

VOCs, SVOCs, Reactivity/ Corrosivity/ Ignitability, PCBs, Metals/Cr+6, Pesticides, Herbicides

***Container Type	CG	AG	AG	AG	PL	← PL →	AG
***Container Size	40mL	1L	1L	1L	250mL	← 500mL →	1L
*** Preservative	None						

ANALYSES/METHOD REQUESTED

Preserved by: dpw

Cooler Temp: 5°C

Therm. ID: 352

No. of Coolers:

Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
Y	Y	Y	Y	Y	
N	N	N	N	N	

	Custody seals Present?	(If present) Seals intact?	Received on Ice?	COC/Labels complete/accurate?	Container in good condition?
Y	X	X	X	X	X
N					

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: Ran out of volume to sample; analyze in following order of preference: VOCs, SVOCs, Metals/Cr+6, PCBs

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature] / CBI	6-1-16	1445	2 Brian McGuirk	6/3/16	1445
3 Brian McGuirk / ALS	6/6/16	5:00 PM	4 [signature]	6/7	1534
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other

EDDs Required? [ ] If yes, format type:

SDWA Forms? yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

Other

Enter PWSID No.

DOD Criteria Required?

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite

**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

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June 17, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2149548**
Purchase Order:		Workorder ID:	**CBR016|MaltaRocketFuelArea/154**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 8, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2149548001	CS-LF036	Other	6/6/2016 13:50	6/8/2016 16:30	Collected by Client
2149548002	TB8	NY Non-Potable Water	6/6/2016 00:00	6/8/2016 16:30	Collected by Client

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SAMPLE SUMMARY

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Sample Comments

Lab ID: 2149548001 **Sample ID:** CS-LF036 **Sample Type:** SAMPLE

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by the level of non-target compounds.
This sample was collected in a soil jar for the volatile analysis. The sample was received and prepared by Method 5035 after the 48-hour holding time.

Lab ID: 2149548002 **Sample ID:** TB8 **Sample Type:** SAMPLE

Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.

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ANALYTICAL RESULTS

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Lab ID: **2149548001** Date Collected: 6/6/2016 13:50 Matrix: Other

Sample ID: **CS-LF036** Date Received: 6/8/2016 16:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	9820000		ug/kg	9350000	2900000	SW846 8260C	6/9/16 00:18	TMP	6/14/16 21:08	TMP	F1
Benzene	115000		ug/kg	46700	10700	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Bromochloromethane	46700 U	U	ug/kg	46700	15000	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Bromodichloromethane	46700 U	U	ug/kg	46700	12600	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Bromoform	46700 U	U	ug/kg	46700	18700	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Bromomethane	46700 U	U	ug/kg	46700	18200	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
2-Butanone	683000		ug/kg	467000	84100	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Carbon Disulfide	46700 U	U	ug/kg	46700	10700	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Carbon Tetrachloride	46700 U	U	ug/kg	46700	14500	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Chlorobenzene	46700 U	U	ug/kg	46700	8880	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Chlorodibromomethane	46700 U	U	ug/kg	46700	21000	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Chloroethane	46700 U	U	ug/kg	46700	15400	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Chloroform	10200J	J	ug/kg	46700	9810	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Chloromethane	26000J	J	ug/kg	46700	14500	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Cyclohexane	125000		ug/kg	46700	13600	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,2-Dibromo-3-chloropropane	327000 U	U	ug/kg	327000	70100	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,2-Dibromoethane	46700 U	U	ug/kg	46700	13100	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,2-Dichlorobenzene	46700 U	U	ug/kg	46700	17800	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,3-Dichlorobenzene	46700 U	U	ug/kg	46700	11700	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,4-Dichlorobenzene	46700 U	U	ug/kg	46700	12600	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Dichlorodifluoromethane	46700 U	U	ug/kg	46700	15400	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,1-Dichloroethane	46700 U	U	ug/kg	46700	13100	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,2-Dichloroethane	46700 U	U	ug/kg	46700	15000	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,1-Dichloroethene	46700 U	U	ug/kg	46700	13600	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
cis-1,2-Dichloroethene	46700 U	U	ug/kg	46700	15000	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
trans-1,2-Dichloroethene	46700 U	U	ug/kg	46700	12100	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,2-Dichloropropane	46700 U	U	ug/kg	46700	11200	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
cis-1,3-Dichloropropene	46700 U	U	ug/kg	46700	14500	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
trans-1,3-Dichloropropene	46700 U	U	ug/kg	46700	13600	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,4-Dioxane	15000000 U	U	ug/kg	15000000	2750000	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Ethylbenzene	46700 U	U	ug/kg	46700	15900	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Freon 113	46700 U	U	ug/kg	46700	12100	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
2-Hexanone	234000 U	U	ug/kg	234000	60700	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Isopropylbenzene	46700 U	U	ug/kg	46700	10300	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Methyl acetate	93500 U	U	ug/kg	93500	15000	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Lab ID: **2149548001** Date Collected: 6/6/2016 13:50 Matrix: Other

Sample ID: **CS-LF036** Date Received: 6/8/2016 16:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl cyclohexane	298000		ug/kg	46700	14000	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Methyl t-Butyl Ether	46700 U	U	ug/kg	46700	15400	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
4-Methyl-2-Pentanone(MIBK)	4820000		ug/kg	234000	70100	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Methylene Chloride	46700 U	U	ug/kg	46700	21000	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Styrene	46700 U	U	ug/kg	46700	11200	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,1,2,2-Tetrachloroethane	46700 U	U	ug/kg	46700	15900	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Tetrachloroethene	46700 U	U	ug/kg	46700	16400	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Toluene	175000		ug/kg	46700	10700	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Total Xylenes	59600J	J	ug/kg	140000	30800	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,2,3-Trichlorobenzene	93500 U	U	ug/kg	93500	43500	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,2,4-Trichlorobenzene	93500 U	U	ug/kg	93500	38300	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,1,1-Trichloroethane	46700 U	U	ug/kg	46700	10300	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
1,1,2-Trichloroethane	46700 U	U	ug/kg	46700	15400	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Trichloroethene	46700 U	U	ug/kg	46700	15400	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Trichlorofluoromethane	46700 U	U	ug/kg	46700	11200	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Vinyl Chloride	46700 U	U	ug/kg	46700	14000	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
o-Xylene	46700 U	U	ug/kg	46700	15400	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
mp-Xylene	45500J	J	ug/kg	93500	24300	SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	369000		%	71 - 146		SW846 8260C	6/9/16 00:18	TMP	6/14/16 21:08	TMP	F1
1,2-Dichloroethane-d4 (S)	83.1		%	71 - 146		SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
4-Bromofluorobenzene (S)	101		%	46 - 138		SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
4-Bromofluorobenzene (S)	379000		%	46 - 138		SW846 8260C	6/9/16 00:18	TMP	6/14/16 21:08	TMP	F1
Dibromofluoromethane (S)	76.3		%	42 - 143		SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
Dibromofluoromethane (S)	318000		%	42 - 143		SW846 8260C	6/9/16 00:18	TMP	6/14/16 21:08	TMP	F1
Toluene-d8 (S)	360000		%	54 - 141		SW846 8260C	6/9/16 00:18	TMP	6/14/16 21:08	TMP	F1
Toluene-d8 (S)	94.8		%	54 - 141		SW846 8260C	6/9/16 00:18	TMP	6/15/16 12:52	TMP	F1
SEMIVOLATILES											
Acenaphthene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Acenaphthylene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Anthracene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Benzo(a)anthracene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Benzo(a)pyrene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Benzo(b)fluoranthene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Benzo(g,h,i)perylene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Benzo(k)fluoranthene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
4-Bromophenyl-phenylether	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B

ANALYTICAL RESULTS

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Lab ID: **2149548001** Date Collected: 6/6/2016 13:50 Matrix: Other

Sample ID: **CS-LF036** Date Received: 6/8/2016 16:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Butylbenzylphthalate	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Carbazole	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
4-Chloro-3-methylphenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
4-Chloroaniline	39900 U	U,3,4	ug/kg	39900	20000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
bis(2-Chloroethoxy)methane	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
bis(2-Chloroethyl)ether	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
bis(2-Chloroisopropyl)ether	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2-Chloronaphthalene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2-Chlorophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
4-Chlorophenyl-phenylether	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Chrysene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
mp-Cresol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
o-Cresol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Di-n-Butylphthalate	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Di-n-Octylphthalate	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Dibenzo(a,h)anthracene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Dibenzofuran	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
1,2-Dichlorobenzene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
1,3-Dichlorobenzene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
1,4-Dichlorobenzene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
3,3-Dichlorobenzidine	59900 U	U,1,2	ug/kg	59900	29900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2,4-Dichlorophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Diethylphthalate	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2,4-Dimethylphenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Dimethylphthalate	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2,4-Dinitrophenol	120000 U	U	ug/kg	120000	59900	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2,4-Dinitrotoluene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2,6-Dinitrotoluene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
bis(2-Ethylhexyl)phthalate	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Fluoranthene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Fluorene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Hexachlorobenzene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Hexachlorobutadiene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Hexachlorocyclopentadiene	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Hexachloroethane	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Indeno(1,2,3-cd)pyrene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Isophorone	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Lab ID: **2149548001** Date Collected: 6/6/2016 13:50 Matrix: Other

Sample ID: **CS-LF036** Date Received: 6/8/2016 16:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Methyl-4,6-dinitrophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2-Methylnaphthalene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Naphthalene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2-Nitroaniline	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
3-Nitroaniline	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
4-Nitroaniline	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Nitrobenzene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2-Nitrophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
4-Nitrophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
N-Nitroso-di-n-propylamine	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
N-Nitrosodiphenylamine	18000 U	U	ug/kg	18000	8980	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Pentachlorophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Phenanthrene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Phenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Pyrene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
1,2,4-Trichlorobenzene	15000 U	U	ug/kg	15000	7490	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2,4,5-Trichlorophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2,4,6-Trichlorophenol	29900 U	U	ug/kg	29900	15000	SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	81.5		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2-Fluorobiphenyl (S)	98.5		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
2-Fluorophenol (S)	97.6		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Nitrobenzene-d5 (S)	95.4		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Phenol-d5 (S)	99		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
Terphenyl-d14 (S)	99.3		%	50 - 150		SW846 8270D	6/9/16 10:50	MPP	6/9/16 19:33	EGO	B
PESTICIDES											
Aldrin	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
alpha-BHC	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
beta-BHC	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
delta-BHC	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
gamma-BHC	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Chlordane	977 U	U	ug/kg	977		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
alpha-Chlordane	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
gamma-Chlordane	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
4,4'-DDD	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
4,4'-DDE	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
4,4'-DDT	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B

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ANALYTICAL RESULTS

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Lab ID: **2149548001** Date Collected: 6/6/2016 13:50 Matrix: Other

Sample ID: **CS-LF036** Date Received: 6/8/2016 16:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Dieldrin	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Endosulfan I	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Endosulfan II	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Endosulfan Sulfate	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Endrin	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Endrin Aldehyde	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Endrin Ketone	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Heptachlor	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Heptachlor Epoxide	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Methoxychlor	48.9 U	U	ug/kg	48.9		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Toxaphene	1950 U	U	ug/kg	1950		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	67.2		%	70 - 130		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
Tetrachloro-m-xylene (S)	70.5		%	70 - 130		SW846 8081B	6/9/16 09:40	MPP	6/10/16 21:49	RWS	B
PCBs											
Aroclor-1016	0.96 U	U,5,6	mg/kg	0.96	0.13	600/4-81-045	6/10/16 07:34	CHS	6/10/16 09:49	EGO	B
Aroclor-1221	0.96 U	U	mg/kg	0.96	0.38	600/4-81-045	6/10/16 07:34	CHS	6/10/16 09:49	EGO	B
Aroclor-1232	0.96 U	U	mg/kg	0.96	0.35	600/4-81-045	6/10/16 07:34	CHS	6/10/16 09:49	EGO	B
Aroclor-1242	0.96 U	U	mg/kg	0.96	0.33	600/4-81-045	6/10/16 07:34	CHS	6/10/16 09:49	EGO	B
Aroclor-1248	0.96 U	U	mg/kg	0.96	0.34	600/4-81-045	6/10/16 07:34	CHS	6/10/16 09:49	EGO	B
Aroclor-1254	0.96 U	U	mg/kg	0.96	0.28	600/4-81-045	6/10/16 07:34	CHS	6/10/16 09:49	EGO	B
Aroclor-1260	0.96 U	U,7,8	mg/kg	0.96	0.12	600/4-81-045	6/10/16 07:34	CHS	6/10/16 09:49	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	130		%	64 - 150		600/4-81-045	6/10/16 07:34	CHS	6/10/16 09:49	EGO	B
Tetrachloro-m-xylene (S)	256	9	%	74 - 152		600/4-81-045	6/10/16 07:34	CHS	6/10/16 09:49	EGO	B
HERBICIDES											
2,4-D	1880 U	U	ug/kg	1880		SW846 8151A	6/9/16 09:40	VLM	6/10/16 13:37	KJH	B
2,4-DB	1880 U	U	ug/kg	1880		SW846 8151A	6/9/16 09:40	VLM	6/10/16 13:37	KJH	B
Dalapon	1880 U	U	ug/kg	1880		SW846 8151A	6/9/16 09:40	VLM	6/10/16 13:37	KJH	B
Dicamba	1880 U	U	ug/kg	1880		SW846 8151A	6/9/16 09:40	VLM	6/10/16 13:37	KJH	B
Dichloroprop	1880 U	U	ug/kg	1880		SW846 8151A	6/9/16 09:40	VLM	6/10/16 13:37	KJH	B
Dinoseb	1880 U	U	ug/kg	1880		SW846 8151A	6/9/16 09:40	VLM	6/10/16 13:37	KJH	B
Pentachlorophenol	1880 U	U	ug/kg	1880		SW846 8151A	6/9/16 09:40	VLM	6/10/16 13:37	KJH	B
2,4,5-T	1880 U	U	ug/kg	1880		SW846 8151A	6/9/16 09:40	VLM	6/10/16 13:37	KJH	B
2,4,5-TP	1880 U	U	ug/kg	1880		SW846 8151A	6/9/16 09:40	VLM	6/10/16 13:37	KJH	B

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ANALYTICAL RESULTS

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Lab ID: **2149548001** Date Collected: 6/6/2016 13:50 Matrix: Other

Sample ID: **CS-LF036** Date Received: 6/8/2016 16:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	33.7		%			SW846 8151A	6/9/16 09:40	VLM	6/10/16 13:37	KJH	B
WET CHEMISTRY											
Corrosivity as pH	6.58	12	pH_Units			SW846 9045D			6/12/16 04:23	MSA	B
Cyanide, Reactive	0.020J	J	ppm	10	0.011	SW-846 7.3CN	6/14/16 15:00	MLM	6/15/16 01:09	LJF	B
Flashpoint/Ignitability	See comment	10,11	Deg. F			SW-846 1010A			6/13/16 06:00	SDL	B
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.38	SW846 7196A	6/15/16 14:00	MLM	6/15/16 20:00	MLM	B
Sulfide, Reactive	6.2 U	U	ppm	6.2	1.2	SW846 7.3	6/14/16 15:00	MLM	6/15/16 15:00	MLM	B
METALS											
Aluminum, Total	11.4J	J	mg/kg	20.8	6.9	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Antimony, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Arsenic, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Barium, Total	0.96J	J	mg/kg	2.1	0.69	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Beryllium, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Cadmium, Total	1.0 U	U	mg/kg	1.0	0.35	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Calcium, Total	27.6		mg/kg	20.8	6.9	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Chromium, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Cobalt, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Copper, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Iron, Total	503		mg/kg	20.8	6.9	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Lead, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Magnesium, Total	20.8 U	U	mg/kg	20.8	6.9	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Manganese, Total	2.4		mg/kg	2.1	0.69	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Mercury, Total	0.049 U	U	mg/kg	0.049	0.016	SW846 7471B	6/13/16 10:00	MNP	6/13/16 12:17	MNP	B2
Nickel, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Potassium, Total	104 U	U	mg/kg	104	34.8	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Selenium, Total	5.9J	J	mg/kg	10.4	3.5	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Silver, Total	1.0 U	U	mg/kg	1.0	0.35	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Sodium, Total	50.2J	J	mg/kg	104	34.8	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Thallium, Total	6.3 U	U	mg/kg	6.3	2.1	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Vanadium, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1
Zinc, Total	6.7		mg/kg	4.2	1.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 03:44	TSS	B1

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ANALYTICAL RESULTS

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Lab ID: **2149548001** Date Collected: 6/6/2016 13:50 Matrix: Other

Sample ID: **CS-LF036** Date Received: 6/8/2016 16:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Lab ID: **2149548002** Date Collected: 6/6/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB8** Date Received: 6/8/2016 16:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		6/10/16 12:18	DD	A
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/10/16 12:18	DD	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 12:18	DD	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/10/16 12:18	DD	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/10/16 12:18	DD	A
Bromomethane	0.41J	J	ug/L	1.0	0.39	SW846 8260C		6/10/16 12:18	DD	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/10/16 12:18	DD	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/10/16 12:18	DD	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 12:18	DD	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/10/16 12:18	DD	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/10/16 12:18	DD	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 12:18	DD	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/10/16 12:18	DD	A
Chloromethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 12:18	DD	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 12:18	DD	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/10/16 12:18	DD	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/10/16 12:18	DD	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/10/16 12:18	DD	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/10/16 12:18	DD	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/10/16 12:18	DD	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/10/16 12:18	DD	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/10/16 12:18	DD	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 12:18	DD	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 12:18	DD	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/10/16 12:18	DD	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/10/16 12:18	DD	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/10/16 12:18	DD	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/10/16 12:18	DD	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/10/16 12:18	DD	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/10/16 12:18	DD	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/10/16 12:18	DD	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/10/16 12:18	DD	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/10/16 12:18	DD	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/10/16 12:18	DD	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		6/10/16 12:18	DD	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/10/16 12:18	DD	A

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ANALYTICAL RESULTS

Workorder: 2149548 CBR016|MaltaRocketFuelArea/154

Lab ID: **2149548002** Date Collected: 6/6/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB8** Date Received: 6/8/2016 16:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/10/16 12:18	DD	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C			6/10/16 12:18	DD	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C			6/10/16 12:18	DD	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/10/16 12:18	DD	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C			6/10/16 12:18	DD	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C			6/10/16 12:18	DD	A
Toluene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C			6/10/16 12:18	DD	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C			6/10/16 12:18	DD	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C			6/10/16 12:18	DD	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C			6/10/16 12:18	DD	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			6/10/16 12:18	DD	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/10/16 12:18	DD	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/10/16 12:18	DD	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/10/16 12:18	DD	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			6/10/16 12:18	DD	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/10/16 12:18	DD	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			6/10/16 12:18	DD	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	94.6		%	62 - 133	SW846 8260C			6/10/16 12:18	DD	A
4-Bromofluorobenzene (S)	92.7		%	79 - 114	SW846 8260C			6/10/16 12:18	DD	A
Dibromofluoromethane (S)	85.8		%	78 - 116	SW846 8260C			6/10/16 12:18	DD	A
Toluene-d8 (S)	84.2		%	76 - 127	SW846 8260C			6/10/16 12:18	DD	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2149548001	1	CS-LF036	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 41.1 and the control limits were 50 to 200.				
2149548001	2	CS-LF036	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 38.6 and the control limits were 50 to 200.				
2149548001	3	CS-LF036	SW846 8270D	4-Chloroaniline
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 42.3 and the control limits were 50 to 200.				
2149548001	4	CS-LF036	SW846 8270D	4-Chloroaniline
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 41.6 and the control limits were 50 to 200.				
2149548001	5	CS-LF036	600/4-81-045	Aroclor-1016
The QC sample type MS for method 600/4-81-045 was outside the control limits for the analyte Aroclor-1016. The % Recovery was reported as 242 and the control limits were 49 to 169.				
2149548001	6	CS-LF036	600/4-81-045	Aroclor-1016
The QC sample type MSD for method 600/4-81-045 was outside the control limits for the analyte Aroclor-1016. The % Recovery was reported as 249 and the control limits were 49 to 169.				
2149548001	7	CS-LF036	600/4-81-045	Aroclor-1260
The QC sample type MS for method 600/4-81-045 was outside the control limits for the analyte Aroclor-1260. The % Recovery was reported as 157 and the control limits were 68 to 150.				
2149548001	8	CS-LF036	600/4-81-045	Aroclor-1260
The QC sample type MSD for method 600/4-81-045 was outside the control limits for the analyte Aroclor-1260. The % Recovery was reported as 160 and the control limits were 68 to 150.				
2149548001	9	CS-LF036	600/4-81-045	Tetrachloro-m-xylene
The surrogate Tetrachloro-m-xylene for method 600/4-81-045 was outside of control limits. The % Recovery was reported as 256 and the control limits were 74 to 152. This result was reported at a dilution of 1.				
2149548001	10	CS-LF036	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is considered to be ignitable. (Ref 40 CFR 261.21)				
2149548001	11	CS-LF036	SW-846 1010A	Flashpoint/Ignitability
Sample flashed at 54 degrees F (acetone)				
2149548001	12	CS-LF036	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				

Friday, June 17, 2016 9:04:25 AM

ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier: CourierPost

Tracking #: 5309 2169 9

* 2 1 4 9 5 4 8 *

Co. Name: CB&I Environmental & Infrastructure Inc.

Contact (Report to): Brian Neumann Phone: 518-785-2354

Address:
13 British American Blvd
Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area/ 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] -Y brian.neumann@CBI.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	***Container Type	***Container Size	*** Preservative	VOCs 8260C	SVOCs 8270D	Pesticides 8081B	PCBs 8082A	Metals (Total) 6010C/7470A/7196A (Cr+6)	Reactivity/Corrosivity	Ignitability 1030	Herbicides 8151A
									Enter Number of Containers Per Analysis							
1 CS-LF036	WARNING - see attached	6-6-16	1350	G	OL	CG	40mL	None	3	1	1	1	1	1	1	1
2 TB8		6-6-16	—	—	—	AG	1L		3							
3						AG	1L									
4						AG	1L									
5						PL	500mL									
6						← PL →	← 500mL →									
7						AG	1L									
8								→								

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

(completed by Sample Receiving)

Performed by: ACS

Cooler Temp: 2.2

Therm. ID: TH-352

No. of Coolers:

Notes:

	Y	N
Correct containers?		
Correct sample volume?		
Correct preservation?		
Headspace/Volatiles?		
Circle appropriate Y or N.		
Custody seals Present?		
(If present) Seals intact?		
Received on ice?		
COC/Labels complete/accurate?		
Container in good condition?		

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: *See QAPP

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [illegible] / CBI	6-6-16	1515	2 Brian McGuirk/ALS	6/6	3:25
3 Brian McGuirk	6-7-16	1630	4 [signature] ALS	6/8	1630
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ]

EDDs Required? [ ] If yes, format type:

SDWA Forms? yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

Other

Data PWSID No.

DOD Criteria Required?

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 01-2013

WARNING: Sample CS-LF036 is likely composed of or contains Acetone; liquid contents is highly volatile.

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-6-16
Container ID #	LF036
Original Container Location	
Original Container Type	Closed Top 55gal Steel
Original Container Size	55gal
Original Container Condition	Hole in the side and corroded
Original Container Labels / Markings	N/A
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	Y
Vapor? (Y/N)	N/A
PID Reading (ppm)	0 (PID out of range on container headspace)
LEL Reading (%)	0
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Liquid - appears similar to liquid from LF021
Color	brown (from sample bottle)
Notes	N/A
Sampler Name	
Inside Container Sample ID # / Time	CS-LF036 / 6-6-16 @ 1350
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	Y

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

June 20, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2149984**
Purchase Order:		Workorder ID:	**CBR018|MaltaRocketFuelArea/154**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Thursday, June 9, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2149984001	CS-LF037	Other	6/7/2016 11:00	6/9/2016 15:42	Collected by Client
2149984002	TB9	NY Non-Potable Water	6/7/2016 00:00	6/9/2016 15:42	Collected by Client
2149984003	CS-LF038	Other	6/7/2016 13:30	6/9/2016 15:42	Collected by Client

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SAMPLE SUMMARY

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Sample Comments

Lab ID: 2149984001 **Sample ID:** CS-LF037 **Sample Type:** SAMPLE

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by the level of non-target compounds.

Lab ID: 2149984002 **Sample ID:** TB9 **Sample Type:** SAMPLE

Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.

Lab ID: 2149984003 **Sample ID:** CS-LF038 **Sample Type:** SAMPLE

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by the level of non-target compounds.

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ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984001** Date Collected: 6/7/2016 11:00 Matrix: Other

Sample ID: **CS-LF037** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	2250000		ug/kg	758000	235000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Benzene	194000		ug/kg	75800	17400	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Bromochloromethane	75800 U	U	ug/kg	75800	24200	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Bromodichloromethane	75800 U	U	ug/kg	75800	20500	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Bromoform	75800 U	U	ug/kg	75800	30300	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Bromomethane	75800 U	U	ug/kg	75800	29500	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
2-Butanone	1140000		ug/kg	758000	136000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Carbon Disulfide	75800 U	U	ug/kg	75800	17400	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Carbon Tetrachloride	75800 U	U	ug/kg	75800	23500	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Chlorobenzene	75800 U	U	ug/kg	75800	14400	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Chlorodibromomethane	75800 U	U	ug/kg	75800	34100	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Chloroethane	75800 U	U	ug/kg	75800	25000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Chloroform	23700J	J	ug/kg	75800	15900	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Chloromethane	28000J	J	ug/kg	75800	23500	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Cyclohexane	129000		ug/kg	75800	22000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,2-Dibromo-3-chloropropane	530000 U	U	ug/kg	530000	114000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,2-Dibromoethane	75800 U	U	ug/kg	75800	21200	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,2-Dichlorobenzene	75800 U	U	ug/kg	75800	28800	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,3-Dichlorobenzene	75800 U	U	ug/kg	75800	18900	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,4-Dichlorobenzene	75800 U	U	ug/kg	75800	20500	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Dichlorodifluoromethane	75800 U	U	ug/kg	75800	25000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,1-Dichloroethane	75800 U	U	ug/kg	75800	21200	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,2-Dichloroethane	75800 U	U	ug/kg	75800	24200	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,1-Dichloroethene	75800 U	U	ug/kg	75800	22000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
cis-1,2-Dichloroethene	75800 U	U	ug/kg	75800	24200	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
trans-1,2-Dichloroethene	75800 U	U	ug/kg	75800	19700	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,2-Dichloropropane	75800 U	U	ug/kg	75800	18200	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
cis-1,3-Dichloropropene	75800 U	U	ug/kg	75800	23500	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
trans-1,3-Dichloropropene	75800 U	U	ug/kg	75800	22000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,4-Dioxane	24200000 U	U	ug/kg	24200000	4460000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Ethylbenzene	75800 U	U	ug/kg	75800	25800	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Freon 113	75800 U	U	ug/kg	75800	19700	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
2-Hexanone	379000 U	U	ug/kg	379000	98500	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Isopropylbenzene	75800 U	U	ug/kg	75800	16700	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Methyl acetate	728000		ug/kg	152000	24200	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Methyl cyclohexane	356000		ug/kg	75800	22700	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984001** Date Collected: 6/7/2016 11:00 Matrix: Other

Sample ID: **CS-LF037** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	75800 U	U	ug/kg	75800	25000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
4-Methyl-2-Pentanone(MIBK)	7270000		ug/kg	379000	114000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Methylene Chloride	75800 U	U	ug/kg	75800	34100	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Styrene	75800 U	U	ug/kg	75800	18200	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,1,2,2-Tetrachloroethane	75800 U	U	ug/kg	75800	25800	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Tetrachloroethene	75800 U	U	ug/kg	75800	26500	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Toluene	241000		ug/kg	75800	17400	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Total Xylenes	56800J	J	ug/kg	227000	50000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,2,3-Trichlorobenzene	152000 U	U	ug/kg	152000	70500	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,2,4-Trichlorobenzene	152000 U	U	ug/kg	152000	62100	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,1,1-Trichloroethane	75800 U	U	ug/kg	75800	16700	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
1,1,2-Trichloroethane	75800 U	U	ug/kg	75800	25000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Trichloroethene	75800 U	U	ug/kg	75800	25000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Trichlorofluoromethane	75800 U	U	ug/kg	75800	18200	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Vinyl Chloride	75800 U	U	ug/kg	75800	22700	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
o-Xylene	75800 U	U	ug/kg	75800	25000	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
mp-Xylene	56800J	J	ug/kg	152000	39400	SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	93.7		%	71 - 146		SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
4-Bromofluorobenzene (S)	100		%	46 - 138		SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Dibromofluoromethane (S)	83.9		%	42 - 143		SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
Toluene-d8 (S)	93.5		%	54 - 141		SW846 8260C	6/13/16 11:33	TMP	6/14/16 19:42	TMP	F1
SEMIVOLATILES											
Acenaphthene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Acenaphthylene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Anthracene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Benzo(a)anthracene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Benzo(a)pyrene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Benzo(b)fluoranthene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Benzo(g,h,i)perylene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Benzo(k)fluoranthene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
4-Bromophenyl-phenylether	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Butylbenzylphthalate	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Carbazole	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
4-Chloro-3-methylphenol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
4-Chloroaniline	38200 U	U,3,4	ug/kg	38200	19100	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984001** Date Collected: 6/7/2016 11:00 Matrix: Other

Sample ID: **CS-LF037** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
bis(2-Chloroethyl)ether	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
bis(2-Chloroisopropyl)ether	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2-Chloronaphthalene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2-Chlorophenol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
4-Chlorophenyl-phenylether	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Chrysene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
mp-Cresol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
o-Cresol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Di-n-Butylphthalate	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Di-n-Octylphthalate	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Dibenzo(a,h)anthracene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Dibenzofuran	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
1,2-Dichlorobenzene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
1,3-Dichlorobenzene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
1,4-Dichlorobenzene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
3,3-Dichlorobenzidine	57300 U	U,1,2	ug/kg	57300	28600	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2,4-Dichlorophenol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Diethylphthalate	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2,4-Dimethylphenol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Dimethylphthalate	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2,4-Dinitrophenol	115000 U	U	ug/kg	115000	57300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2,4-Dinitrotoluene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2,6-Dinitrotoluene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
bis(2-Ethylhexyl)phthalate	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Fluoranthene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Fluorene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Hexachlorobenzene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Hexachlorobutadiene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Hexachlorocyclopentadiene	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Hexachloroethane	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Indeno(1,2,3-cd)pyrene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Isophorone	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2-Methyl-4,6-dinitrophenol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2-Methylnaphthalene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Naphthalene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2-Nitroaniline	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
3-Nitroaniline	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B

ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984001** Date Collected: 6/7/2016 11:00 Matrix: Other

Sample ID: **CS-LF037** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Nitroaniline	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Nitrobenzene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2-Nitrophenol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
4-Nitrophenol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
N-Nitroso-di-n-propylamine	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
N-Nitrosodiphenylamine	17200 U	U	ug/kg	17200	8590	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Pentachlorophenol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Phenanthrene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Phenol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Pyrene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
1,2,4-Trichlorobenzene	14300 U	U	ug/kg	14300	7160	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2,4,5-Trichlorophenol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2,4,6-Trichlorophenol	28600 U	U	ug/kg	28600	14300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	86.2		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2-Fluorobiphenyl (S)	90.4		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
2-Fluorophenol (S)	84.5		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Nitrobenzene-d5 (S)	90.4		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Phenol-d5 (S)	89.6		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
Terphenyl-d14 (S)	90		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:20	EGO	B
PESTICIDES											
Aldrin	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
alpha-BHC	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
beta-BHC	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
delta-BHC	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
gamma-BHC	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Chlordane	981 U	U	ug/kg	981		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
alpha-Chlordane	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
gamma-Chlordane	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
4,4'-DDD	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
4,4'-DDE	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
4,4'-DDT	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Dieldrin	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Endosulfan I	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Endosulfan II	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Endosulfan Sulfate	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Endrin	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984001** Date Collected: 6/7/2016 11:00 Matrix: Other

Sample ID: **CS-LF037** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Endrin Aldehyde	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Endrin Ketone	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Heptachlor	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Heptachlor Epoxide	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Methoxychlor	49.0 U	U	ug/kg	49.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Toxaphene	1960 U	U	ug/kg	1960		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	94		%	70 - 130		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
Tetrachloro-m-xylene (S)	90.5		%	70 - 130		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:51	RWS	B
PCBs											
Aroclor-1016	0.89 U	U	mg/kg	0.89	0.13	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:59	EGO	B
Aroclor-1221	0.89 U	U	mg/kg	0.89	0.36	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:59	EGO	B
Aroclor-1232	0.89 U	U	mg/kg	0.89	0.32	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:59	EGO	B
Aroclor-1242	0.89 U	U	mg/kg	0.89	0.30	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:59	EGO	B
Aroclor-1248	0.89 U	U	mg/kg	0.89	0.31	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:59	EGO	B
Aroclor-1254	0.89 U	U	mg/kg	0.89	0.26	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:59	EGO	B
Aroclor-1260	0.89 U	U	mg/kg	0.89	0.11	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:59	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	143		%	64 - 150		600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:59	EGO	B
Tetrachloro-m-xylene (S)	260	5	%	74 - 152		600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:59	EGO	B
HERBICIDES											
2,4-D	1980 U	U	ug/kg	1980		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:50	KJH	B
2,4-DB	1980 U	U	ug/kg	1980		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:50	KJH	B
Dalapon	1980 U	U	ug/kg	1980		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:50	KJH	B
Dicamba	1980 U	U	ug/kg	1980		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:50	KJH	B
Dichloroprop	1980 U	U	ug/kg	1980		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:50	KJH	B
Dinoseb	1980 U	U	ug/kg	1980		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:50	KJH	B
Pentachlorophenol	1980 U	U	ug/kg	1980		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:50	KJH	B
2,4,5-T	1980 U	U	ug/kg	1980		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:50	KJH	B
2,4,5-TP	1980 U	U	ug/kg	1980		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:50	KJH	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	23.7		%			SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:50	KJH	B
WET CHEMISTRY											
Corrosivity as pH	2.50	8	pH_Units			SW846 9045D			6/12/16 04:35	MSA	B
Cyanide, Reactive	0.015J	J	ppm	10	0.011	SW-846 7.3CN	6/14/16 15:00	MLM	6/15/16 01:09	LJF	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984001** Date Collected: 6/7/2016 11:00 Matrix: Other

Sample ID: **CS-LF037** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Flashpoint/Ignitability	See comment	6,7	Deg. F			SW-846 1010A			6/16/16 06:00	SDL	B
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.38	SW846 7196A	6/15/16 14:00	MLM	6/15/16 20:00	MLM	B
Sulfide, Reactive	2.0J	J	ppm	6.2	1.2	SW846 7.3	6/14/16 15:00	MLM	6/15/16 15:00	MLM	B
METALS											
Aluminum, Total	36.7		mg/kg	20.0	6.7	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Antimony, Total	4.0 U	U	mg/kg	4.0	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Arsenic, Total	4.0 U	U	mg/kg	4.0	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Barium, Total	1.7J	J	mg/kg	2.0	0.67	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Beryllium, Total	2.0 U	U	mg/kg	2.0	0.67	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Cadmium, Total	1.0 U	U	mg/kg	1.0	0.33	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Calcium, Total	67.9		mg/kg	20.0	6.7	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Chromium, Total	2.0 U	U	mg/kg	2.0	0.67	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Cobalt, Total	2.0 U	U	mg/kg	2.0	0.67	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Copper, Total	4.0 U	U	mg/kg	4.0	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Iron, Total	1600		mg/kg	20.0	6.7	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Lead, Total	4.0 U	U	mg/kg	4.0	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Magnesium, Total	20.0 U	U	mg/kg	20.0	6.7	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Manganese, Total	18.9		mg/kg	2.0	0.67	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Mercury, Total	0.050 U	U	mg/kg	0.050	0.016	SW846 7471B	6/13/16 10:00	MNP	6/13/16 12:55	MNP	B2
Nickel, Total	4.0 U	U	mg/kg	4.0	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Potassium, Total	100 U	U	mg/kg	100	33.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Selenium, Total	6.7J	J	mg/kg	10.0	3.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Silver, Total	1.0 U	U	mg/kg	1.0	0.33	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Sodium, Total	100 U	U	mg/kg	100	33.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Thallium, Total	6.0 U	U	mg/kg	6.0	2.0	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Vanadium, Total	2.0 U	U	mg/kg	2.0	0.67	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1
Zinc, Total	2.5J	J	mg/kg	4.0	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:03	TSS	B1

Vicki Forney

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984002** Date Collected: 6/7/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB9** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		6/13/16 14:44	TMP	A
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/13/16 14:44	TMP	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/13/16 14:44	TMP	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/13/16 14:44	TMP	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/13/16 14:44	TMP	A
Bromomethane	0.64J	J	ug/L	1.0	0.39	SW846 8260C		6/13/16 14:44	TMP	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/13/16 14:44	TMP	A
Carbon Disulfide	0.23J	J	ug/L	1.0	0.23	SW846 8260C		6/13/16 14:44	TMP	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/13/16 14:44	TMP	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/13/16 14:44	TMP	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/13/16 14:44	TMP	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/13/16 14:44	TMP	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/13/16 14:44	TMP	A
Chloromethane	0.67J	J	ug/L	1.0	0.31	SW846 8260C		6/13/16 14:44	TMP	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/13/16 14:44	TMP	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/13/16 14:44	TMP	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/13/16 14:44	TMP	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/13/16 14:44	TMP	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/13/16 14:44	TMP	A
1,4-Dichlorobenzene	0.29J	J	ug/L	1.0	0.27	SW846 8260C		6/13/16 14:44	TMP	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/13/16 14:44	TMP	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/13/16 14:44	TMP	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/13/16 14:44	TMP	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/13/16 14:44	TMP	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/13/16 14:44	TMP	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/13/16 14:44	TMP	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/13/16 14:44	TMP	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/13/16 14:44	TMP	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/13/16 14:44	TMP	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/13/16 14:44	TMP	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/13/16 14:44	TMP	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/13/16 14:44	TMP	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/13/16 14:44	TMP	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/13/16 14:44	TMP	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		6/13/16 14:44	TMP	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/13/16 14:44	TMP	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984002** Date Collected: 6/7/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB9** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/13/16 14:44	TMP	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C			6/13/16 14:44	TMP	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C			6/13/16 14:44	TMP	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/13/16 14:44	TMP	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C			6/13/16 14:44	TMP	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C			6/13/16 14:44	TMP	A
Toluene	0.28J	J	ug/L	1.0	0.23	SW846 8260C			6/13/16 14:44	TMP	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C			6/13/16 14:44	TMP	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C			6/13/16 14:44	TMP	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C			6/13/16 14:44	TMP	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			6/13/16 14:44	TMP	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/13/16 14:44	TMP	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/13/16 14:44	TMP	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/13/16 14:44	TMP	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			6/13/16 14:44	TMP	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/13/16 14:44	TMP	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			6/13/16 14:44	TMP	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	107		%	62 - 133	SW846 8260C			6/13/16 14:44	TMP	A
4-Bromofluorobenzene (S)	113		%	79 - 114	SW846 8260C			6/13/16 14:44	TMP	A
Dibromofluoromethane (S)	98.3		%	78 - 116	SW846 8260C			6/13/16 14:44	TMP	A
Toluene-d8 (S)	110		%	76 - 127	SW846 8260C			6/13/16 14:44	TMP	A

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ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984003** Date Collected: 6/7/2016 13:30 Matrix: Other

Sample ID: **CS-LF038** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	4900000 U	U	ug/kg	4900000	1520000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Benzene	490000 U	U	ug/kg	490000	113000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Bromochloromethane	490000 U	U	ug/kg	490000	157000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Bromodichloromethane	490000 U	U	ug/kg	490000	132000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Bromoform	490000 U	U	ug/kg	490000	196000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Bromomethane	490000 U	U	ug/kg	490000	191000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
2-Butanone	4900000 U	U	ug/kg	4900000	882000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Carbon Disulfide	490000 U	U	ug/kg	490000	113000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Carbon Tetrachloride	490000 U	U	ug/kg	490000	152000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Chlorobenzene	490000 U	U	ug/kg	490000	93100	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Chlorodibromomethane	490000 U	U	ug/kg	490000	221000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Chloroethane	490000 U	U	ug/kg	490000	162000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Chloroform	490000 U	U	ug/kg	490000	103000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Chloromethane	490000 U	U	ug/kg	490000	152000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Cyclohexane	490000 U	U	ug/kg	490000	142000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,2-Dibromo-3-chloropropane	3430000 U	U	ug/kg	3430000	735000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,2-Dibromoethane	490000 U	U	ug/kg	490000	137000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,2-Dichlorobenzene	490000 U	U	ug/kg	490000	186000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,3-Dichlorobenzene	490000 U	U	ug/kg	490000	123000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,4-Dichlorobenzene	490000 U	U	ug/kg	490000	132000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Dichlorodifluoromethane	490000 U	U	ug/kg	490000	162000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,1-Dichloroethane	490000 U	U	ug/kg	490000	137000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,2-Dichloroethane	490000 U	U	ug/kg	490000	157000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,1-Dichloroethene	490000 U	U	ug/kg	490000	142000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
cis-1,2-Dichloroethene	490000 U	U	ug/kg	490000	157000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
trans-1,2-Dichloroethene	490000 U	U	ug/kg	490000	127000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,2-Dichloropropane	490000 U	U	ug/kg	490000	118000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
cis-1,3-Dichloropropene	490000 U	U	ug/kg	490000	152000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
trans-1,3-Dichloropropene	490000 U	U	ug/kg	490000	142000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,4-Dioxane	157000000 U	U	ug/kg	157000000	28900000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Ethylbenzene	490000 U	U	ug/kg	490000	167000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Freon 113	490000 U	U	ug/kg	490000	127000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
2-Hexanone	2450000 U	U	ug/kg	2450000	637000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Isopropylbenzene	490000 U	U	ug/kg	490000	108000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F

ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984003** Date Collected: 6/7/2016 13:30 Matrix: Other

Sample ID: **CS-LF038** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl acetate	980000 U	U	ug/kg	980000	157000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Methyl cyclohexane	490000 U	U	ug/kg	490000	147000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Methyl t-Butyl Ether	490000 U	U	ug/kg	490000	162000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
4-Methyl-2-Pentanone(MIBK)	2450000 U	U	ug/kg	2450000	735000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Methylene Chloride	490000 U	U	ug/kg	490000	221000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Styrene	490000 U	U	ug/kg	490000	118000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,1,2,2-Tetrachloroethane	490000 U	U	ug/kg	490000	167000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Tetrachloroethene	538000		ug/kg	490000	172000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Toluene	490000 U	U	ug/kg	490000	113000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Total Xylenes	1470000 U	U	ug/kg	1470000	324000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,2,3-Trichlorobenzene	980000 U	U	ug/kg	980000	456000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,2,4-Trichlorobenzene	980000 U	U	ug/kg	980000	402000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,1,1-Trichloroethane	490000 U	U	ug/kg	490000	108000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
1,1,2-Trichloroethane	490000 U	U	ug/kg	490000	162000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Trichloroethene	490000 U	U	ug/kg	490000	162000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Trichlorofluoromethane	490000 U	U	ug/kg	490000	118000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Vinyl Chloride	490000 U	U	ug/kg	490000	147000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
o-Xylene	490000 U	U	ug/kg	490000	162000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
mp-Xylene	980000 U	U	ug/kg	980000	255000	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	71 - 146	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
4-Bromofluorobenzene (S)	109		%	46 - 138	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Dibromofluoromethane (S)	97.2		%	42 - 143	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F
Toluene-d8 (S)	95.8		%	54 - 141	SW846 8260C	6/13/16 11:31	DD	6/13/16 15:09	DD	F

SEMIVOLATILES

Acenaphthene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Acenaphthylene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Anthracene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Benzo(a)anthracene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Benzo(a)pyrene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Benzo(b)fluoranthene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Benzo(g,h,i)perylene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Benzo(k)fluoranthene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
4-Bromophenyl-phenylether	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Butylbenzylphthalate	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Carbazole	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984003** Date Collected: 6/7/2016 13:30 Matrix: Other

Sample ID: **CS-LF038** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Chloro-3-methylphenol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
4-Chloroaniline	36500 U	U,3,4	ug/kg	36500	18300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
bis(2-Chloroethoxy)methane	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
bis(2-Chloroethyl)ether	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
bis(2-Chloroisopropyl)ether	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2-Chloronaphthalene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2-Chlorophenol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
4-Chlorophenyl-phenylether	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Chrysene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
mp-Cresol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
o-Cresol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Di-n-Butylphthalate	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Di-n-Octylphthalate	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Dibenzo(a,h)anthracene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Dibenzofuran	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
1,2-Dichlorobenzene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
1,3-Dichlorobenzene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
1,4-Dichlorobenzene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
3,3-Dichlorobenzidine	54800 U	U,1,2	ug/kg	54800	27400	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2,4-Dichlorophenol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Diethylphthalate	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2,4-Dimethylphenol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Dimethylphthalate	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2,4-Dinitrophenol	110000 U	U	ug/kg	110000	54800	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2,4-Dinitrotoluene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2,6-Dinitrotoluene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
bis(2-Ethylhexyl)phthalate	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Fluoranthene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Fluorene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Hexachlorobenzene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Hexachlorobutadiene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Hexachlorocyclopentadiene	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Hexachloroethane	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Indeno(1,2,3-cd)pyrene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Isophorone	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2-Methyl-4,6-dinitrophenol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2-Methylnaphthalene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B

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ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984003** Date Collected: 6/7/2016 13:30 Matrix: Other

Sample ID: **CS-LF038** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Naphthalene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2-Nitroaniline	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
3-Nitroaniline	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
4-Nitroaniline	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Nitrobenzene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2-Nitrophenol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
4-Nitrophenol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
N-Nitroso-di-n-propylamine	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
N-Nitrosodiphenylamine	16400 U	U	ug/kg	16400	8220	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Pentachlorophenol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Phenanthrene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Phenol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Pyrene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
1,2,4-Trichlorobenzene	13700 U	U	ug/kg	13700	6850	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2,4,5-Trichlorophenol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2,4,6-Trichlorophenol	27400 U	U	ug/kg	27400	13700	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	77.6		%	50 - 150	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2-Fluorobiphenyl (S)	89.8		%	50 - 150	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
2-Fluorophenol (S)	89.6		%	50 - 150	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Nitrobenzene-d5 (S)	88.8		%	50 - 150	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Phenol-d5 (S)	86.5		%	50 - 150	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B
Terphenyl-d14 (S)	87.5		%	50 - 150	SW846 8270D	6/15/16 10:15	MPP	6/16/16 11:45	EGO	B

PESTICIDES

Aldrin	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
alpha-BHC	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
beta-BHC	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
delta-BHC	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
gamma-BHC	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Chlordane	991 U	U	ug/kg	991	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
alpha-Chlordane	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
gamma-Chlordane	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
4,4'-DDD	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
4,4'-DDE	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
4,4'-DDT	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Dieldrin	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Endosulfan I	49.6 U	U	ug/kg	49.6	SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B

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ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984003** Date Collected: 6/7/2016 13:30 Matrix: Other

Sample ID: **CS-LF038** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Endosulfan II	49.6 U	U	ug/kg	49.6		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Endosulfan Sulfate	49.6 U	U	ug/kg	49.6		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Endrin	49.6 U	U	ug/kg	49.6		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Endrin Aldehyde	49.6 U	U	ug/kg	49.6		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Endrin Ketone	49.6 U	U	ug/kg	49.6		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Heptachlor	49.6 U	U	ug/kg	49.6		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Heptachlor Epoxide	49.6 U	U	ug/kg	49.6		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Methoxychlor	49.6 U	U	ug/kg	49.6		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Toxaphene	1980 U	U	ug/kg	1980		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	97.5		%	70 - 130		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
Tetrachloro-m-xylene (S)	90.2		%	70 - 130		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:06	RWS	B
PCBs											
Aroclor-1016	0.91 U	U	mg/kg	0.91	0.13	600/4-81-045	6/10/16 07:34	CHS	6/10/16 11:17	EGO	B
Aroclor-1221	0.91 U	U	mg/kg	0.91	0.36	600/4-81-045	6/10/16 07:34	CHS	6/10/16 11:17	EGO	B
Aroclor-1232	0.91 U	U	mg/kg	0.91	0.33	600/4-81-045	6/10/16 07:34	CHS	6/10/16 11:17	EGO	B
Aroclor-1242	0.91 U	U	mg/kg	0.91	0.31	600/4-81-045	6/10/16 07:34	CHS	6/10/16 11:17	EGO	B
Aroclor-1248	0.91 U	U	mg/kg	0.91	0.32	600/4-81-045	6/10/16 07:34	CHS	6/10/16 11:17	EGO	B
Aroclor-1254	0.91 U	U	mg/kg	0.91	0.26	600/4-81-045	6/10/16 07:34	CHS	6/10/16 11:17	EGO	B
Aroclor-1260	0.91 U	U	mg/kg	0.91	0.11	600/4-81-045	6/10/16 07:34	CHS	6/10/16 11:17	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	145		%	64 - 150		600/4-81-045	6/10/16 07:34	CHS	6/10/16 11:17	EGO	B
Tetrachloro-m-xylene (S)	271	5	%	74 - 152		600/4-81-045	6/10/16 07:34	CHS	6/10/16 11:17	EGO	B
HERBICIDES											
2,4-D	1760 U	U	ug/kg	1760		SW846 8151A	6/15/16 11:20	MPP	6/16/16 15:27	KJH	B
2,4-DB	1760 U	U	ug/kg	1760		SW846 8151A	6/15/16 11:20	MPP	6/16/16 15:27	KJH	B
Dalapon	1760 U	U	ug/kg	1760		SW846 8151A	6/15/16 11:20	MPP	6/16/16 15:27	KJH	B
Dicamba	1760 U	U	ug/kg	1760		SW846 8151A	6/15/16 11:20	MPP	6/16/16 15:27	KJH	B
Dichloroprop	1760 U	U	ug/kg	1760		SW846 8151A	6/15/16 11:20	MPP	6/16/16 15:27	KJH	B
Dinoseb	1760 U	U	ug/kg	1760		SW846 8151A	6/15/16 11:20	MPP	6/16/16 15:27	KJH	B
Pentachlorophenol	1760 U	U	ug/kg	1760		SW846 8151A	6/15/16 11:20	MPP	6/16/16 15:27	KJH	B
2,4,5-T	1760 U	U	ug/kg	1760		SW846 8151A	6/15/16 11:20	MPP	6/16/16 15:27	KJH	B
2,4,5-TP	1760 U	U	ug/kg	1760		SW846 8151A	6/15/16 11:20	MPP	6/16/16 15:27	KJH	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	22.7		%			SW846 8151A	6/15/16 11:20	MPP	6/16/16 15:27	KJH	B

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ANALYTICAL RESULTS

Workorder: 2149984 CBR018|MaltaRocketFuelArea/154

Lab ID: **2149984003** Date Collected: 6/7/2016 13:30 Matrix: Other

Sample ID: **CS-LF038** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY											
Corrosivity as pH	3.29	8	pH_Units			SW846 9045D			6/12/16 04:40	MSA	B
Cyanide, Reactive	0.015J	J	ppm	10.0	0.011	SW-846 7.3CN	6/14/16 15:00	MLM	6/15/16 01:09	LJF	B
Flashpoint/Ignitability	See comment	6,7	Deg. F			SW-846 1010A			6/16/16 06:00	SDL	B
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.39	SW846 7196A	6/15/16 14:00	MLM	6/15/16 20:00	MLM	B
Sulfide, Reactive	3.2J	J	ppm	6.3	1.3	SW846 7.3	6/14/16 15:00	MLM	6/15/16 15:00	MLM	B
METALS											
Aluminum, Total	17.0J	J	mg/kg	22.7	7.6	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Antimony, Total	4.5 U	U	mg/kg	4.5	1.5	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Arsenic, Total	4.5 U	U	mg/kg	4.5	1.5	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Barium, Total	6.0		mg/kg	2.3	0.76	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Beryllium, Total	2.3 U	U	mg/kg	2.3	0.76	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Cadmium, Total	1.1 U	U	mg/kg	1.1	0.38	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Calcium, Total	85.9		mg/kg	22.7	7.6	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Chromium, Total	2.3 U	U	mg/kg	2.3	0.76	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Cobalt, Total	2.3 U	U	mg/kg	2.3	0.76	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Copper, Total	4.5 U	U	mg/kg	4.5	1.5	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Iron, Total	20.8J	J	mg/kg	22.7	7.6	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Lead, Total	4.5 U	U	mg/kg	4.5	1.5	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Magnesium, Total	22.7 U	U	mg/kg	22.7	7.6	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Manganese, Total	2.3 U	U	mg/kg	2.3	0.76	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Mercury, Total	0.10 U	U	mg/kg	0.10	0.032	SW846 7471B	6/15/16 10:00	MNP	6/15/16 12:34	MNP	B2
Nickel, Total	4.5 U	U	mg/kg	4.5	1.5	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Potassium, Total	114 U	U	mg/kg	114	38.0	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Selenium, Total	4.5J	J	mg/kg	11.4	3.8	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Silver, Total	1.1 U	U	mg/kg	1.1	0.38	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Sodium, Total	114 U	U	mg/kg	114	38.0	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Thallium, Total	6.8 U	U	mg/kg	6.8	2.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Vanadium, Total	2.3 U	U	mg/kg	2.3	0.76	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1
Zinc, Total	4.5 U	U	mg/kg	4.5	1.5	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:06	TSS	B1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2149984001	1	CS-LF037	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 33 and the control limits were 50 to 200.				
2149984001	2	CS-LF037	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 36.5 and the control limits were 50 to 200.				
2149984001	3	CS-LF037	SW846 8270D	4-Chloroaniline
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 39.7 and the control limits were 50 to 200.				
2149984001	4	CS-LF037	SW846 8270D	4-Chloroaniline
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 38.5 and the control limits were 50 to 200.				
2149984001	5	CS-LF037	600/4-81-045	Tetrachloro-m-xylene
The surrogate Tetrachloro-m-xylene for method 600/4-81-045 was outside of control limits. The % Recovery was reported as 260 and the control limits were 74 to 152. This result was reported at a dilution of 1.				
2149984001	6	CS-LF037	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is considered to be ignitable. (Ref 40 CFR 261.21)				
2149984001	7	CS-LF037	SW-846 1010A	Flashpoint/Ignitability
Sample flashed at 50 degrees F				
2149984001	8	CS-LF037	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				
2149984003	1	CS-LF038	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 33 and the control limits were 50 to 200.				
2149984003	2	CS-LF038	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 36.5 and the control limits were 50 to 200.				
2149984003	3	CS-LF038	SW846 8270D	4-Chloroaniline
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 39.7 and the control limits were 50 to 200.				
2149984003	4	CS-LF038	SW846 8270D	4-Chloroaniline
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 38.5 and the control limits were 50 to 200.				
2149984003	5	CS-LF038	600/4-81-045	Tetrachloro-m-xylene
The surrogate Tetrachloro-m-xylene for method 600/4-81-045 was outside of control limits. The % Recovery was reported as 271 and the control limits were 74 to 152. This result was reported at a dilution of 1.				
2149984003	6	CS-LF038	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is considered to be ignitable. (Ref 40 CFR 261.21)				
2149984003	7	CS-LF038	SW-846 1010A	Flashpoint/Ignitability
Sample flashed at 64 degrees F				
2149984003	8	CS-LF038	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				

Monday, June 20, 2016 9:23:50 AM
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ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier: Fedex
Tracking #: 447063097

2149984

Co. Name: CB&I Environmental & Infrastructure Inc.
Contact (Report to): Brian Neumann Phone: 518-785-2354
Address: 13 British American Blvd, Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area / 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALS approval and surcharges. 5-day
Date Required:
Approved By:

Email? [ ] Y
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs 8260C	SVOCs 8270D	Pesticides 8081B	PCBs 8082A	Metals (Total) 6010C/ 7471B (mercury) + Cr+6 7196A	Reactivity/Corrosivity	Ignitability 1030	Herbicides 8151A
						Enter Number of Containers Per Analysis							
1 CS-LF037	WARNING - see attached	6-7-16	1100	G	OL	3	1	1	1	1	1	1	1
2 TB9		6-7-16	—	—	—	3							
3 CS-LF038	WARNING - see attached	6-7-16	1330	G	OL	3	1	1	1	1	1	1	1
4													
5													
6													
7													
8													

***Container Type: CG, AG, AG, AG, PL, PL, PL, AG
***Container Size: 40mL, 1L, 1L, 1L, 500mL, 500mL, 500mL, 1L
***Preservative: None

Performed by:
Cooler Temp: 3.2
Therm. ID: IR-3
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
1	Y	Y	N	Y	
2	N	N	N	N	
3	Y	Y	Y	N	

Custody seals Present? | (if present) Seals Intact? | Received on Ice? | COC/Labels complete/accurate? | Container in good condition?

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: *See QAPP

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 CB&I	6-7-16	1520	2 Brian McGuire	6/7/16	1520
3 Brian McGuire	6-8-16	1700	4	6/9	1342
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? yes
State Samples Collected In? MD, NJ, NY, PA
Other
PWSID No.

ALS FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
**Matrix: A=Air; DW=Drinking Water; GW=Groundwater; O=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

WARNING: Sample CS-LF037 and CS-LF038 are ~~is~~ highly volatile and may be composed of or contain acetone.

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16
Container ID #	LF037, LF038
Original Container Location	
Original Container Type	Closed-top 55-gallon steel
Original Container Size	55-gallon
Original Container Condition	Dent on side and corroded
Original Container Labels / Markings	None
Outer / Overpack Container Type	N/A
Spill or Leak? (Y/N)	Y, leaking
Vapor? (Y/N)	N
PID Reading (ppm)	650 ppm from headspace of sample container
LEL Reading (%)	+ (out of range)
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	Liquid
Color	Clear to brown
Notes	
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF037 / 6-7-16 @ 1100 & CS-LF038 / 6-7-16@1330
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

June 20, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2149983**
Purchase Order:		Workorder ID:	**CBR017|MaltaRocketFuelArea/154**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Thursday, June 9, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2149983001	CS-LF039	Other	6/7/2016 13:55	6/9/2016 15:42	Collected by Client
2149983002	CS-LF042	Other	6/7/2016 14:30	6/9/2016 15:42	Collected by Client
2149983003	TB10	NY Non-Potable Water	6/7/2016 00:00	6/9/2016 15:42	Collected by Client

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SAMPLE SUMMARY

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Sample Comments

Lab ID: 2149983001 **Sample ID:** CS-LF039 **Sample Type:** SAMPLE

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by the level of non-target compounds.

Lab ID: 2149983002 **Sample ID:** CS-LF042 **Sample Type:** SAMPLE

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by the level of non-target compounds.

Lab ID: 2149983003 **Sample ID:** TB10 **Sample Type:** SAMPLE

Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.

ANALYTICAL RESULTS

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID: **2149983001** Date Collected: 6/7/2016 13:55 Matrix: Other

Sample ID: **CS-LF039** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	12500000 U	U	ug/kg	12500000	3880000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Benzene	1250000 U	U	ug/kg	1250000	288000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Bromochloromethane	1250000 U	U	ug/kg	1250000	400000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Bromodichloromethane	1250000 U	U	ug/kg	1250000	338000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Bromoform	1250000 U	U	ug/kg	1250000	500000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Bromomethane	1250000 U	U	ug/kg	1250000	488000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
2-Butanone	12500000 U	U	ug/kg	12500000	2250000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Carbon Disulfide	1250000 U	U	ug/kg	1250000	288000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Carbon Tetrachloride	1250000 U	U	ug/kg	1250000	388000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Chlorobenzene	1250000 U	U	ug/kg	1250000	238000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Chlorodibromomethane	1250000 U	U	ug/kg	1250000	563000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Chloroethane	1250000 U	U	ug/kg	1250000	413000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Chloroform	1250000 U	U	ug/kg	1250000	263000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Chloromethane	1250000 U	U	ug/kg	1250000	388000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Cyclohexane	1250000 U	U	ug/kg	1250000	363000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,2-Dibromo-3-chloropropane	8750000 U	U	ug/kg	8750000	1880000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,2-Dibromoethane	1250000 U	U	ug/kg	1250000	350000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,2-Dichlorobenzene	1250000 U	U	ug/kg	1250000	475000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,3-Dichlorobenzene	1250000 U	U	ug/kg	1250000	313000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,4-Dichlorobenzene	1250000 U	U	ug/kg	1250000	338000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Dichlorodifluoromethane	1250000 U	U	ug/kg	1250000	413000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,1-Dichloroethane	1250000 U	U	ug/kg	1250000	350000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,2-Dichloroethane	1250000 U	U	ug/kg	1250000	400000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B

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ANALYTICAL RESULTS

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID: **2149983001** Date Collected: 6/7/2016 13:55 Matrix: Other

Sample ID: **CS-LF039** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1-Dichloroethene	1250000 U	U	ug/kg	1250000	363000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
cis-1,2-Dichloroethene	1250000 U	U	ug/kg	1250000	400000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
trans-1,2-Dichloroethene	1250000 U	U	ug/kg	1250000	325000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,2-Dichloropropane	1250000 U	U	ug/kg	1250000	300000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
cis-1,3-Dichloropropene	1250000 U	U	ug/kg	1250000	388000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
trans-1,3-Dichloropropene	1250000 U	U	ug/kg	1250000	363000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,4-Dioxane	400000000 U	U	ug/kg	4000000000	73600000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Ethylbenzene	1250000 U	U	ug/kg	1250000	425000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Freon 113	1250000 U	U	ug/kg	1250000	325000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
2-Hexanone	6250000 U	U	ug/kg	6250000	1630000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Isopropylbenzene	1250000 U	U	ug/kg	1250000	275000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Methyl acetate	2500000 U	U	ug/kg	2500000	400000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Methyl cyclohexane	1250000 U	U	ug/kg	1250000	375000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Methyl t-Butyl Ether	1250000 U	U	ug/kg	1250000	413000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
4-Methyl-2-Pentanone(MIBK)	6250000 U	U	ug/kg	6250000	1880000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Methylene Chloride	1250000 U	U	ug/kg	1250000	563000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Styrene	1250000 U	U	ug/kg	1250000	300000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,1,2,2-Tetrachloroethane	1250000 U	U	ug/kg	1250000	425000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Tetrachloroethene	808000J	J	ug/kg	1250000	438000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Toluene	1250000 U	U	ug/kg	1250000	288000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Total Xylenes	3750000 U	U	ug/kg	3750000	825000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,2,3-Trichlorobenzene	2500000 U	U,1	ug/kg	2500000	1160000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,2,4-Trichlorobenzene	2500000 U	U	ug/kg	2500000	1030000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID: **2149983001** Date Collected: 6/7/2016 13:55 Matrix: Other

Sample ID: **CS-LF039** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	1250000 U	U	ug/kg	1250000	275000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
1,1,2-Trichloroethane	1250000 U	U	ug/kg	1250000	413000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Trichloroethene	1250000 U	U	ug/kg	1250000	413000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Trichlorofluoromethane	1250000 U	U	ug/kg	1250000	300000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Vinyl Chloride	1250000 U	U	ug/kg	1250000	375000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
o-Xylene	1250000 U	U	ug/kg	1250000	413000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
mp-Xylene	2500000 U	U	ug/kg	2500000	650000	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	71 - 146	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
4-Bromofluorobenzene (S)	110		%	46 - 138	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Dibromofluoromethane (S)	97.4		%	42 - 143	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B
Toluene-d8 (S)	95.4		%	54 - 141	SW846 8260C	6/13/16 11:30	DD	6/13/16 14:46	DD	B

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID: **2149983002** Date Collected: 6/7/2016 14:30 Matrix: Other

Sample ID: **CS-LF042** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	2850000		ug/kg	714000	221000	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Benzene	180000		ug/kg	71400	16400	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Bromochloromethane	71400 U	U	ug/kg	71400	22900	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Bromodichloromethane	71400 U	U	ug/kg	71400	19300	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Bromoform	71400 U	U	ug/kg	71400	28600	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Bromomethane	71400 U	U	ug/kg	71400	27900	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
2-Butanone	1350000		ug/kg	714000	129000	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Carbon Disulfide	71400 U	U	ug/kg	71400	16400	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Carbon Tetrachloride	71400 U	U	ug/kg	71400	22100	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Chlorobenzene	71400 U	U	ug/kg	71400	13600	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Chlorodibromomethane	71400 U	U	ug/kg	71400	32100	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Chloroethane	71400 U	U	ug/kg	71400	23600	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Chloroform	20300J	J	ug/kg	71400	15000	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Chloromethane	38800J	J	ug/kg	71400	22100	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Cyclohexane	175000		ug/kg	71400	20700	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,2-Dibromo-3-chloropropane	500000 U	U	ug/kg	500000	107000	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,2-Dibromoethane	71400 U	U	ug/kg	71400	20000	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,2-Dichlorobenzene	71400 U	U	ug/kg	71400	27100	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,3-Dichlorobenzene	71400 U	U	ug/kg	71400	17900	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,4-Dichlorobenzene	71400 U	U	ug/kg	71400	19300	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Dichlorodifluoromethane	71400 U	U	ug/kg	71400	23600	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,1-Dichloroethane	71400 U	U	ug/kg	71400	20000	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,2-Dichloroethane	71400 U	U	ug/kg	71400	22900	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,1-Dichloroethene	71400 U	U	ug/kg	71400	20700	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
cis-1,2-Dichloroethene	71400 U	U	ug/kg	71400	22900	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
trans-1,2-Dichloroethene	71400 U	U	ug/kg	71400	18600	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,2-Dichloropropane	71400 U	U	ug/kg	71400	17100	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
cis-1,3-Dichloropropene	71400 U	U	ug/kg	71400	22100	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
trans-1,3-Dichloropropene	71400 U	U	ug/kg	71400	20700	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,4-Dioxane	22900000 U	U	ug/kg	22900000	4210000	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Ethylbenzene	71400 U	U	ug/kg	71400	24300	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Freon 113	71400 U	U	ug/kg	71400	18600	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
2-Hexanone	357000 U	U	ug/kg	357000	92900	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Isopropylbenzene	71400 U	U	ug/kg	71400	15700	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Methyl acetate	1400000		ug/kg	143000	22900	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Methyl cyclohexane	418000		ug/kg	71400	21400	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1

ANALYTICAL RESULTS

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID: **2149983002** Date Collected: 6/7/2016 14:30 Matrix: Other

Sample ID: **CS-LF042** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	71400 U	U	ug/kg	71400	23600	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
4-Methyl-2-Pentanone(MIBK)	8180000		ug/kg	357000	107000	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Methylene Chloride	71400 U	U	ug/kg	71400	32100	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Styrene	71400 U	U	ug/kg	71400	17100	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,1,2,2-Tetrachloroethane	71400 U	U	ug/kg	71400	24300	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Tetrachloroethene	71400 U	U	ug/kg	71400	25000	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Toluene	234000		ug/kg	71400	16400	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Total Xylenes	214000 U	U	ug/kg	214000	47100	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,2,3-Trichlorobenzene	143000 U	U	ug/kg	143000	66400	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,2,4-Trichlorobenzene	143000 U	U	ug/kg	143000	58600	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,1,1-Trichloroethane	71400 U	U	ug/kg	71400	15700	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
1,1,2-Trichloroethane	71400 U	U	ug/kg	71400	23600	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Trichloroethene	71400 U	U	ug/kg	71400	23600	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Trichlorofluoromethane	71400 U	U	ug/kg	71400	17100	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Vinyl Chloride	71400 U	U	ug/kg	71400	21400	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
o-Xylene	71400 U	U	ug/kg	71400	23600	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
mp-Xylene	46100J	J	ug/kg	143000	37100	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	93.3		%	71 - 146	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
4-Bromofluorobenzene (S)	102		%	46 - 138	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Dibromofluoromethane (S)	85.1		%	42 - 143	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1
Toluene-d8 (S)	94.7		%	54 - 141	SW846 8260C	6/13/16 11:32	TMP	6/14/16 19:59	TMP	F1

SEMIVOLATILES

Acenaphthene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Acenaphthylene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Anthracene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Benzo(a)anthracene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Benzo(a)pyrene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Benzo(b)fluoranthene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Benzo(g,h,i)perylene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Benzo(k)fluoranthene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
4-Bromophenyl-phenylether	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Butylbenzylphthalate	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Carbazole	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
4-Chloro-3-methylphenol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
4-Chloroaniline	35900 U	U,3,4	ug/kg	35900	18000	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID: **2149983002** Date Collected: 6/7/2016 14:30 Matrix: Other

Sample ID: **CS-LF042** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
bis(2-Chloroethyl)ether	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
bis(2-Chloroisopropyl)ether	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2-Chloronaphthalene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2-Chlorophenol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
4-Chlorophenyl-phenylether	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Chrysene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
mp-Cresol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
o-Cresol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Di-n-Butylphthalate	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Di-n-Octylphthalate	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Dibenzo(a,h)anthracene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Dibenzofuran	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
1,2-Dichlorobenzene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
1,3-Dichlorobenzene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
1,4-Dichlorobenzene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
3,3-Dichlorobenzidine	53900 U	U,1,2	ug/kg	53900	27000	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2,4-Dichlorophenol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Diethylphthalate	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2,4-Dimethylphenol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Dimethylphthalate	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2,4-Dinitrophenol	108000 U	U	ug/kg	108000	53900	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2,4-Dinitrotoluene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2,6-Dinitrotoluene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
bis(2-Ethylhexyl)phthalate	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Fluoranthene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Fluorene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Hexachlorobenzene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Hexachlorobutadiene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Hexachlorocyclopentadiene	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Hexachloroethane	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Indeno(1,2,3-cd)pyrene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Isophorone	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2-Methyl-4,6-dinitrophenol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2-Methylnaphthalene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Naphthalene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2-Nitroaniline	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
3-Nitroaniline	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B

ANALYTICAL RESULTS

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID: **2149983002** Date Collected: 6/7/2016 14:30 Matrix: Other

Sample ID: **CS-LF042** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Nitroaniline	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Nitrobenzene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2-Nitrophenol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
4-Nitrophenol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
N-Nitroso-di-n-propylamine	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
N-Nitrosodiphenylamine	16200 U	U	ug/kg	16200	8090	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Pentachlorophenol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Phenanthrene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Phenol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Pyrene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
1,2,4-Trichlorobenzene	13500 U	U	ug/kg	13500	6740	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2,4,5-Trichlorophenol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2,4,6-Trichlorophenol	27000 U	U	ug/kg	27000	13500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	62.4		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2-Fluorobiphenyl (S)	90.2		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
2-Fluorophenol (S)	87		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Nitrobenzene-d5 (S)	89.7		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Phenol-d5 (S)	87.8		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
Terphenyl-d14 (S)	86.9		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 10:55	EGO	B
PESTICIDES											
Aldrin	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
alpha-BHC	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
beta-BHC	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
delta-BHC	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
gamma-BHC	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Chlordane	971 U	U	ug/kg	971		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
alpha-Chlordane	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
gamma-Chlordane	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
4,4'-DDD	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
4,4'-DDE	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
4,4'-DDT	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Dieldrin	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Endosulfan I	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Endosulfan II	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Endosulfan Sulfate	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Endrin	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B

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ANALYTICAL RESULTS

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID: **2149983002** Date Collected: 6/7/2016 14:30 Matrix: Other

Sample ID: **CS-LF042** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Endrin Aldehyde	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Endrin Ketone	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Heptachlor	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Heptachlor Epoxide	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Methoxychlor	48.5 U	U	ug/kg	48.5		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Toxaphene	1940 U	U	ug/kg	1940		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	78.5		%	70 - 130		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
Tetrachloro-m-xylene (S)	83.3		%	70 - 130		SW846 8081B	6/15/16 10:40	MPP	6/16/16 11:35	RWS	B
PCBs											
Aroclor-1016	0.97 U	U	mg/kg	0.97	0.14	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:42	EGO	B
Aroclor-1221	0.97 U	U	mg/kg	0.97	0.39	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:42	EGO	B
Aroclor-1232	0.97 U	U	mg/kg	0.97	0.35	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:42	EGO	B
Aroclor-1242	0.97 U	U	mg/kg	0.97	0.33	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:42	EGO	B
Aroclor-1248	0.97 U	U	mg/kg	0.97	0.34	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:42	EGO	B
Aroclor-1254	0.97 U	U	mg/kg	0.97	0.28	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:42	EGO	B
Aroclor-1260	0.97 U	U	mg/kg	0.97	0.12	600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:42	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	144		%	64 - 150		600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:42	EGO	B
Tetrachloro-m-xylene (S)	256	5	%	74 - 152		600/4-81-045	6/10/16 07:34	CHS	6/10/16 10:42	EGO	B
HERBICIDES											
2,4-D	1960 U	U	ug/kg	1960		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:13	KJH	B
2,4-DB	1960 U	U	ug/kg	1960		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:13	KJH	B
Dalapon	1960 U	U	ug/kg	1960		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:13	KJH	B
Dicamba	1960 U	U	ug/kg	1960		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:13	KJH	B
Dichloroprop	1960 U	U	ug/kg	1960		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:13	KJH	B
Dinoseb	1960 U	U	ug/kg	1960		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:13	KJH	B
Pentachlorophenol	1960 U	U	ug/kg	1960		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:13	KJH	B
2,4,5-T	1960 U	U	ug/kg	1960		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:13	KJH	B
2,4,5-TP	1960 U	U	ug/kg	1960		SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:13	KJH	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	27.8		%			SW846 8151A	6/15/16 11:20	MPP	6/16/16 14:13	KJH	B
WET CHEMISTRY											
Corrosivity as pH	3.09	8	pH_Units			SW846 9045D			6/12/16 04:29	MSA	B
Cyanide, Reactive	0.015J	J	ppm	10	0.011	SW-846 7.3CN	6/14/16 15:00	MLM	6/15/16 01:09	LJF	B

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ANALYTICAL RESULTS

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID: **2149983002** Date Collected: 6/7/2016 14:30 Matrix: Other

Sample ID: **CS-LF042** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Flashpoint/Ignitability	See comment	6,7	Deg. F			SW-846 1010A			6/16/16 06:00	SDL	B
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.39	SW846 7196A	6/15/16 14:00	MLM	6/15/16 20:00	MLM	B
Sulfide, Reactive	2.0J	J	ppm	6.2	1.2	SW846 7.3	6/14/16 15:00	MLM	6/15/16 15:00	MLM	B
METALS											
Aluminum, Total	88.9		mg/kg	19.2	6.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Antimony, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Arsenic, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Barium, Total	6.6		mg/kg	1.9	0.64	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Beryllium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Cadmium, Total	0.96 U	U	mg/kg	0.96	0.32	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Calcium, Total	57.8		mg/kg	19.2	6.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Chromium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Cobalt, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Copper, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Iron, Total	356		mg/kg	19.2	6.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Lead, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Magnesium, Total	10.5J	J	mg/kg	19.2	6.4	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Manganese, Total	6.5		mg/kg	1.9	0.64	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Mercury, Total	0.050 U	U	mg/kg	0.050	0.016	SW846 7471B	6/13/16 10:00	MNP	6/13/16 12:54	MNP	B2
Nickel, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Potassium, Total	96.2 U	U	mg/kg	96.2	32.1	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Selenium, Total	5.6J	J	mg/kg	9.6	3.2	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Silver, Total	0.96 U	U	mg/kg	0.96	0.32	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Sodium, Total	96.2 U	U	mg/kg	96.2	32.1	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Thallium, Total	5.8 U	U	mg/kg	5.8	1.9	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Vanadium, Total	1.9 U	U	mg/kg	1.9	0.64	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1
Zinc, Total	3.8 U	U	mg/kg	3.8	1.3	SW846 6010C	6/12/16 12:40	JPS	6/13/16 04:00	TSS	B1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID: **2149983003** Date Collected: 6/7/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB10** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	3.7J	J	ug/L	10.0	3.1	SW846 8260C		6/13/16 15:01	TMP	A
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/13/16 15:01	TMP	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/13/16 15:01	TMP	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/13/16 15:01	TMP	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/13/16 15:01	TMP	A
Bromomethane	0.55J	J	ug/L	1.0	0.39	SW846 8260C		6/13/16 15:01	TMP	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/13/16 15:01	TMP	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/13/16 15:01	TMP	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/13/16 15:01	TMP	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/13/16 15:01	TMP	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/13/16 15:01	TMP	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/13/16 15:01	TMP	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/13/16 15:01	TMP	A
Chloromethane	0.57J	J	ug/L	1.0	0.31	SW846 8260C		6/13/16 15:01	TMP	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/13/16 15:01	TMP	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/13/16 15:01	TMP	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/13/16 15:01	TMP	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/13/16 15:01	TMP	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/13/16 15:01	TMP	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/13/16 15:01	TMP	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/13/16 15:01	TMP	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/13/16 15:01	TMP	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/13/16 15:01	TMP	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/13/16 15:01	TMP	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/13/16 15:01	TMP	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/13/16 15:01	TMP	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/13/16 15:01	TMP	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/13/16 15:01	TMP	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/13/16 15:01	TMP	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/13/16 15:01	TMP	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/13/16 15:01	TMP	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/13/16 15:01	TMP	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/13/16 15:01	TMP	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/13/16 15:01	TMP	A
Methyl acetate	0.51J	J,1	ug/L	2.0	0.32	SW846 8260C		6/13/16 15:01	TMP	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/13/16 15:01	TMP	A

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ANALYTICAL RESULTS

Workorder: 2149983 CBR017|MaltaRocketFuelArea/154

Lab ID: **2149983003** Date Collected: 6/7/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **TB10** Date Received: 6/9/2016 15:42

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/13/16 15:01	TMP	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C			6/13/16 15:01	TMP	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C			6/13/16 15:01	TMP	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/13/16 15:01	TMP	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C			6/13/16 15:01	TMP	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C			6/13/16 15:01	TMP	A
Toluene	0.29J	J	ug/L	1.0	0.23	SW846 8260C			6/13/16 15:01	TMP	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C			6/13/16 15:01	TMP	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C			6/13/16 15:01	TMP	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C			6/13/16 15:01	TMP	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			6/13/16 15:01	TMP	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/13/16 15:01	TMP	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/13/16 15:01	TMP	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/13/16 15:01	TMP	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			6/13/16 15:01	TMP	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/13/16 15:01	TMP	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			6/13/16 15:01	TMP	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	108		%	62 - 133	SW846 8260C			6/13/16 15:01	TMP	A
4-Bromofluorobenzene (S)	111		%	79 - 114	SW846 8260C			6/13/16 15:01	TMP	A
Dibromofluoromethane (S)	98.1		%	78 - 116	SW846 8260C			6/13/16 15:01	TMP	A
Toluene-d8 (S)	110		%	76 - 127	SW846 8260C			6/13/16 15:01	TMP	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2149983001	1	CS-LF039	SW846 8260C	1,2,3-Trichlorobenzene
The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte 1,2,3-Trichlorobenzene.				
2149983002	1	CS-LF042	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 33 and the control limits were 50 to 200.				
2149983002	2	CS-LF042	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 36.5 and the control limits were 50 to 200.				
2149983002	3	CS-LF042	SW846 8270D	4-Chloroaniline
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 39.7 and the control limits were 50 to 200.				
2149983002	4	CS-LF042	SW846 8270D	4-Chloroaniline
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 38.5 and the control limits were 50 to 200.				
2149983002	5	CS-LF042	600/4-81-045	Tetrachloro-m-xylene
The surrogate Tetrachloro-m-xylene for method 600/4-81-045 was outside of control limits. The % Recovery was reported as 256 and the control limits were 74 to 152. This result was reported at a dilution of 1.				
2149983002	6	CS-LF042	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is considered to be ignitable. (Ref 40 CFR 261.21)				
2149983002	7	CS-LF042	SW-846 1010A	Flashpoint/Ignitability
Sample flashed at 69 degrees F				
2149983002	8	CS-LF042	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				
2149983003	1	TB10	SW846 8260C	Methyl acetate
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 187 and the control limits were 70 to 130.				

Monday, June 20, 2016 9:23:40 AM
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ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Courier: Fedex
Tracking #: 447053

* 2 1 4 9 9 8 3 *

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Co. Name: CB&I Environmental & Infrastructure Inc.
Contact (Report to): Brian Neumann Phone: 518-785-2354
Address: 13 British American Blvd, Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area / 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] Y brian.neumann@CBI.com
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	***Container Type	***Container Size	***Preservative	VOCs 8260C	SVOCs 8270D	Pesticides 8081B	PCBs 8082A	Metals (Total) 6010C / 7471B (mercury) + (Cr6+) 7196A	Reactivity/Corrosivity	Ignitability 1030	Herbicides 8151A
									Enter Number of Containers Per Analysis							
1 CS-LF039	Warning - see attached	6-7-16	1355	G	OL	CG	40mL	None	3							
2 CS-LF042	Warning - see attached	6-7-16	1430	G	OL	AG	1L		3	1	1	1	1	← 1 →	1	
3 TB10		6-7-16	—	—		AG	1L		3							
4						AG	1L									
5						PL	500mL									
6						← PL →	500mL									
7						AG	1L									
8																

Cooler Temp: 2°
Therm. ID: T1
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
1	N	N	N	N	
2	Y	Y	Y	Y	
3	Y	Y	Y	Y	
4					
5					
6					
7					
8					

Custody seals Present?	(if present) Seals Intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
N	N	N	N	N

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: * see QAPP 6/9/16 0732

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 CB&I	6-7-16	1520	2 Brian McGuirk	6/7/16	1520
3 Brian McGuirk	6-8-16	1700	4	6/9/16	1512
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected in? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
Enter PWSID No.

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 01-2013

WARNING: Samples CS-LF039 and CS-LF042 are highly volatile and may be composed of or contain Acetone.

214983

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-7-16	
Container ID #	~~CS-LF039~~ LF039	and LF042
Original Container Location		
Original Container Type	55-gal Steel	
Original Container Size	55-gal	
Original Container Condition		
Original Container Labels / Markings	None	
Outer / Overpack Container Type		
Spill or Leak? (Y/N)	N	
Vapor? (Y/N)	N	
PID Reading (ppm)	850 in headspace of sample container	
LEL Reading (%)	+	
Oxygen Reading (%)	20.9	
Physcial State (Liquid / Solid / Sludge / Powder)	Liquid	
Color	Clear to brown	
Notes		
Sampler Name	A. Norvelle	
Inside Container Sample ID # / Time	CS-LF039/6-7-16@1355 &	CS-LF042/6-7-16@1230
Soil Under Contaner Sample ID # / Time		
Terrain		
Weather Conditions		
Photograp(s)? (Y/N)		

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

June 20, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2150468**
Purchase Order:		Workorder ID:	**CBR020|Malta Rocket Fue/154035**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Friday, June 10, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2150468 CBR020|Malta Rocket Fue/154035

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2150468001	CS-LF044	Other	6/8/2016 11:50	6/10/2016 14:25	Collected by Client
2150468002	TB11	NY Non-Potable Water	6/10/2016 14:25	6/10/2016 14:25	Collected by Client

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SAMPLE SUMMARY

Workorder: 2150468 CBR020|Malta Rocket Fue/154035

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2150468 CBR020|Malta Rocket Fue/154035

Sample Comments

Lab ID: 2150468001 **Sample ID:** CS-LF044 **Sample Type:** SAMPLE

This sample was collected in a soil jar for the volatile analysis. The sample was received and prepared by Method 5035 after the 48-hour holding time.

Lab ID: 2150468002 **Sample ID:** TB11 **Sample Type:** SAMPLE

Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.

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ANALYTICAL RESULTS

Workorder: 2150468 CBR020|Malta Rocket Fue/154035

Lab ID: **2150468001** Date Collected: 6/8/2016 11:50 Matrix: Other

Sample ID: **CS-LF044** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	4630000		ug/kg	500000	155000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Benzene	163000		ug/kg	50000	11500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Bromochloromethane	50000 U	U	ug/kg	50000	16000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Bromodichloromethane	50000 U	U	ug/kg	50000	13500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Bromoform	50000 U	U	ug/kg	50000	20000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Bromomethane	50000 U	U	ug/kg	50000	19500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
2-Butanone	1010000		ug/kg	500000	90000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Carbon Disulfide	50000 U	U	ug/kg	50000	11500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Carbon Tetrachloride	50000 U	U	ug/kg	50000	15500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Chlorobenzene	50000 U	U	ug/kg	50000	9500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Chlorodibromomethane	50000 U	U	ug/kg	50000	22500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Chloroethane	50000 U	U	ug/kg	50000	16500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Chloroform	50000 U	U	ug/kg	50000	10500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Chloromethane	50000 U	U	ug/kg	50000	15500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Cyclohexane	234000		ug/kg	50000	14500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,2-Dibromo-3-chloropropane	350000 U	U	ug/kg	350000	75000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,2-Dibromoethane	50000 U	U	ug/kg	50000	14000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,2-Dichlorobenzene	50000 U	U	ug/kg	50000	19000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,3-Dichlorobenzene	50000 U	U	ug/kg	50000	12500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,4-Dichlorobenzene	50000 U	U	ug/kg	50000	13500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Dichlorodifluoromethane	50000 U	U	ug/kg	50000	16500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,1-Dichloroethane	50000 U	U	ug/kg	50000	14000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,2-Dichloroethane	50000 U	U	ug/kg	50000	16000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,1-Dichloroethene	50000 U	U	ug/kg	50000	14500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
cis-1,2-Dichloroethene	50000 U	U	ug/kg	50000	16000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
trans-1,2-Dichloroethene	50000 U	U	ug/kg	50000	13000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,2-Dichloropropane	50000 U	U	ug/kg	50000	12000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
cis-1,3-Dichloropropene	50000 U	U	ug/kg	50000	15500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
trans-1,3-Dichloropropene	50000 U	U	ug/kg	50000	14500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,4-Dioxane	160000000 U	U	ug/kg	16000000	2950000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Ethylbenzene	35100J	J	ug/kg	50000	17000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Freon 113	50000 U	U	ug/kg	50000	13000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
2-Hexanone	250000 U	U	ug/kg	250000	65000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Isopropylbenzene	29500J	J	ug/kg	50000	11000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Methyl acetate	100000 U	U	ug/kg	100000	16000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Methyl cyclohexane	492000		ug/kg	50000	15000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150468 CBR020|Malta Rocket Fue/154035

Lab ID: **2150468001** Date Collected: 6/8/2016 11:50 Matrix: Other

Sample ID: **CS-LF044** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	50000 U	U	ug/kg	50000	16500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
4-Methyl-2-Pentanone(MIBK)	8100000		ug/kg	250000	75000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Methylene Chloride	37800J	J	ug/kg	50000	22500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Styrene	50000 U	U	ug/kg	50000	12000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,1,2,2-Tetrachloroethane	50000 U	U	ug/kg	50000	17000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Tetrachloroethene	50000 U	U	ug/kg	50000	17500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Toluene	215000		ug/kg	50000	11500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Total Xylenes	158000		ug/kg	150000	33000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,2,3-Trichlorobenzene	150000 U	U	ug/kg	150000	46500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,2,4-Trichlorobenzene	100000 U	U	ug/kg	100000	41000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,1,1-Trichloroethane	50000 U	U	ug/kg	50000	11000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
1,1,2-Trichloroethane	50000 U	U	ug/kg	50000	16500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Trichloroethene	219000		ug/kg	50000	16500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Trichlorofluoromethane	50000 U	U	ug/kg	50000	12000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Vinyl Chloride	50000 U	U	ug/kg	50000	15000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
o-Xylene	30100J	J	ug/kg	50000	16500	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
mp-Xylene	128000		ug/kg	100000	26000	SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.9		%	71 - 146		SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
4-Bromofluorobenzene (S)	108		%	46 - 138		SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Dibromofluoromethane (S)	90.9		%	42 - 143		SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
Toluene-d8 (S)	96		%	54 - 141		SW846 8260C	6/15/16 10:35	CJG	6/16/16 02:03	CJG	F1
SEMIVOLATILES											
Acenaphthene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Acenaphthylene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Anthracene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Benzo(a)anthracene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Benzo(a)pyrene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Benzo(b)fluoranthene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Benzo(g,h,i)perylene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Benzo(k)fluoranthene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
4-Bromophenyl-phenylether	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Butylbenzylphthalate	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Carbazole	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
4-Chloro-3-methylphenol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
4-Chloroaniline	38600 U	U,3,4	ug/kg	38600	19300	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150468 CBR020|Malta Rocket Fue/154035

Lab ID: **2150468001** Date Collected: 6/8/2016 11:50 Matrix: Other

Sample ID: **CS-LF044** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
bis(2-Chloroethyl)ether	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
bis(2-Chloroisopropyl)ether	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2-Chloronaphthalene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2-Chlorophenol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
4-Chlorophenyl-phenylether	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Chrysene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
mp-Cresol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
o-Cresol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Di-n-Butylphthalate	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Di-n-Octylphthalate	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Dibenzo(a,h)anthracene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Dibenzofuran	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
1,2-Dichlorobenzene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
1,3-Dichlorobenzene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
1,4-Dichlorobenzene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
3,3-Dichlorobenzidine	57900 U	U,1,2	ug/kg	57900	29000	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2,4-Dichlorophenol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Diethylphthalate	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2,4-Dimethylphenol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Dimethylphthalate	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2,4-Dinitrophenol	116000 U	U	ug/kg	116000	57900	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2,4-Dinitrotoluene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2,6-Dinitrotoluene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
bis(2-Ethylhexyl)phthalate	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Fluoranthene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Fluorene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Hexachlorobenzene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Hexachlorobutadiene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Hexachlorocyclopentadiene	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Hexachloroethane	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Indeno(1,2,3-cd)pyrene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Isophorone	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2-Methyl-4,6-dinitrophenol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2-Methylnaphthalene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Naphthalene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2-Nitroaniline	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
3-Nitroaniline	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150468 CBR020|Malta Rocket Fue/154035

Lab ID: **2150468001** Date Collected: 6/8/2016 11:50 Matrix: Other

Sample ID: **CS-LF044** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Nitroaniline	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Nitrobenzene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2-Nitrophenol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
4-Nitrophenol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
N-Nitroso-di-n-propylamine	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
N-Nitrosodiphenylamine	17400 U	U	ug/kg	17400	8690	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Pentachlorophenol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Phenanthrene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Phenol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Pyrene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
1,2,4-Trichlorobenzene	14500 U	U	ug/kg	14500	7240	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2,4,5-Trichlorophenol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2,4,6-Trichlorophenol	29000 U	U	ug/kg	29000	14500	SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	83		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2-Fluorobiphenyl (S)	89.9		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
2-Fluorophenol (S)	91.3		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Nitrobenzene-d5 (S)	91.4		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Phenol-d5 (S)	86.2		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
Terphenyl-d14 (S)	88.7		%	50 - 150		SW846 8270D	6/15/16 10:15	MPP	6/16/16 12:11	EGO	B
PESTICIDES											
Aldrin	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
alpha-BHC	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
beta-BHC	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
delta-BHC	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
gamma-BHC	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Chlordane	861 U	U	ug/kg	861		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
alpha-Chlordane	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
gamma-Chlordane	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
4,4'-DDD	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
4,4'-DDE	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
4,4'-DDT	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Dieldrin	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Endosulfan I	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Endosulfan II	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Endosulfan Sulfate	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Endrin	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B

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ANALYTICAL RESULTS

Workorder: 2150468 CBR020|Malta Rocket Fue/154035

Lab ID: **2150468001** Date Collected: 6/8/2016 11:50 Matrix: Other

Sample ID: **CS-LF044** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Endrin Aldehyde	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Endrin Ketone	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Heptachlor	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Heptachlor Epoxide	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Methoxychlor	43.0 U	U	ug/kg	43.0		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Toxaphene	1720 U	U	ug/kg	1720		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	94.5		%	70 - 130		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
Tetrachloro-m-xylene (S)	90.4		%	70 - 130		SW846 8081B	6/15/16 10:40	MPP	6/16/16 12:22	RWS	B
PCBs											
Aroclor-1016	0.95 U	U,5,6	mg/kg	0.95	0.13	600/4-81-045	6/13/16 06:53	CHS	6/13/16 09:28	EGO	B
Aroclor-1221	0.95 U	U	mg/kg	0.95	0.38	600/4-81-045	6/13/16 06:53	CHS	6/13/16 09:28	EGO	B
Aroclor-1232	0.95 U	U	mg/kg	0.95	0.34	600/4-81-045	6/13/16 06:53	CHS	6/13/16 09:28	EGO	B
Aroclor-1242	0.95 U	U	mg/kg	0.95	0.32	600/4-81-045	6/13/16 06:53	CHS	6/13/16 09:28	EGO	B
Aroclor-1248	0.95 U	U	mg/kg	0.95	0.33	600/4-81-045	6/13/16 06:53	CHS	6/13/16 09:28	EGO	B
Aroclor-1254	0.95 U	U	mg/kg	0.95	0.28	600/4-81-045	6/13/16 06:53	CHS	6/13/16 09:28	EGO	B
Aroclor-1260	0.95 U	U,7,8	mg/kg	0.95	0.11	600/4-81-045	6/13/16 06:53	CHS	6/13/16 09:28	EGO	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	118		%	64 - 150		600/4-81-045	6/13/16 06:53	CHS	6/13/16 09:28	EGO	B
Tetrachloro-m-xylene (S)	209	9	%	74 - 152		600/4-81-045	6/13/16 06:53	CHS	6/13/16 09:28	EGO	B
HERBICIDES											
2,4-D	1800 U	U	ug/kg	1800		SW846 8151A	6/15/16 11:20	MPP	6/16/16 16:05	KJH	B
2,4-DB	1800 U	U	ug/kg	1800		SW846 8151A	6/15/16 11:20	MPP	6/16/16 16:05	KJH	B
Dalapon	1800 U	U	ug/kg	1800		SW846 8151A	6/15/16 11:20	MPP	6/16/16 16:05	KJH	B
Dicamba	1800 U	U	ug/kg	1800		SW846 8151A	6/15/16 11:20	MPP	6/16/16 16:05	KJH	B
Dichloroprop	1800 U	U	ug/kg	1800		SW846 8151A	6/15/16 11:20	MPP	6/16/16 16:05	KJH	B
Dinoseb	1800 U	U	ug/kg	1800		SW846 8151A	6/15/16 11:20	MPP	6/16/16 16:05	KJH	B
Pentachlorophenol	1800 U	U	ug/kg	1800		SW846 8151A	6/15/16 11:20	MPP	6/16/16 16:05	KJH	B
2,4,5-T	1800 U	U	ug/kg	1800		SW846 8151A	6/15/16 11:20	MPP	6/16/16 16:05	KJH	B
2,4,5-TP	1800 U	U	ug/kg	1800		SW846 8151A	6/15/16 11:20	MPP	6/16/16 16:05	KJH	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	27.2		%			SW846 8151A	6/15/16 11:20	MPP	6/16/16 16:05	KJH	B
WET CHEMISTRY											
Corrosivity as pH	2.51	12	pH_Units			SW846 9045D			6/12/16 04:45	MSA	B

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ANALYTICAL RESULTS

Workorder: 2150468 CBR020|Malta Rocket Fue/154035

Lab ID: **2150468001** Date Collected: 6/8/2016 11:50 Matrix: Other

Sample ID: **CS-LF044** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Cyanide, Reactive	0.015J	J	ppm	10	0.011	SW-846 7.3CN	6/14/16 15:00	MLM	6/15/16 01:09	LJF	B
Flashpoint/Ignitability	See comment	10,11	Deg. F			SW-846 1010A			6/16/16 06:00	SDL	B
Hexavalent Chromium	2.0 U	U	mg/kg	2.0	0.39	SW846 7196A	6/16/16 14:00	MLM	6/16/16 20:00	MLM	B
Sulfide, Reactive	6.2 U	U	ppm	6.2	1.2	SW846 7.3	6/14/16 15:00	MLM	6/15/16 15:00	MLM	B
METALS											
Aluminum, Total	24.2		mg/kg	20.8	6.9	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Antimony, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Arsenic, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Barium, Total	0.88J	J	mg/kg	2.1	0.69	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Beryllium, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Cadmium, Total	1.0 U	U	mg/kg	1.0	0.35	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Calcium, Total	40.4		mg/kg	20.8	6.9	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Chromium, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Cobalt, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Copper, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Iron, Total	401		mg/kg	20.8	6.9	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Lead, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Magnesium, Total	20.8 U	U	mg/kg	20.8	6.9	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Manganese, Total	3.0		mg/kg	2.1	0.69	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Mercury, Total	0.096 U	U	mg/kg	0.096	0.031	SW846 7471B	6/15/16 10:00	MNP	6/15/16 12:51	MNP	B2
Nickel, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Potassium, Total	104 U	U	mg/kg	104	34.8	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Selenium, Total	9.3J	J	mg/kg	10.4	3.5	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Silver, Total	1.0 U	U	mg/kg	1.0	0.35	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Sodium, Total	104 U	U	mg/kg	104	34.8	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Thallium, Total	6.3 U	U	mg/kg	6.3	2.1	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Vanadium, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1
Zinc, Total	4.2 U	U	mg/kg	4.2	1.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:23	TSS	B1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150468 CBR020|Malta Rocket Fue/154035

Lab ID: **2150468002** Date Collected: 6/10/2016 14:25 Matrix: NY Non-Potable Water

Sample ID: **TB11** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	3.2J	J	ug/L	10.0	3.1	SW846 8260C		6/16/16 12:03	TMP	A
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/16/16 12:03	TMP	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/16/16 12:03	TMP	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/16/16 12:03	TMP	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		6/16/16 12:03	TMP	A
Bromomethane	0.53J	J	ug/L	1.0	0.39	SW846 8260C		6/16/16 12:03	TMP	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		6/16/16 12:03	TMP	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		6/16/16 12:03	TMP	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/16/16 12:03	TMP	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		6/16/16 12:03	TMP	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		6/16/16 12:03	TMP	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/16/16 12:03	TMP	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		6/16/16 12:03	TMP	A
Chloromethane	0.64J	J	ug/L	1.0	0.31	SW846 8260C		6/16/16 12:03	TMP	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/16/16 12:03	TMP	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		6/16/16 12:03	TMP	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/16/16 12:03	TMP	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		6/16/16 12:03	TMP	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		6/16/16 12:03	TMP	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		6/16/16 12:03	TMP	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		6/16/16 12:03	TMP	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		6/16/16 12:03	TMP	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/16/16 12:03	TMP	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/16/16 12:03	TMP	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		6/16/16 12:03	TMP	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/16/16 12:03	TMP	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		6/16/16 12:03	TMP	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		6/16/16 12:03	TMP	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		6/16/16 12:03	TMP	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		6/16/16 12:03	TMP	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		6/16/16 12:03	TMP	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		6/16/16 12:03	TMP	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		6/16/16 12:03	TMP	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		6/16/16 12:03	TMP	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		6/16/16 12:03	TMP	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		6/16/16 12:03	TMP	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150468 CBR020|Malta Rocket Fue/154035

Lab ID: **2150468002** Date Collected: 6/10/2016 14:25 Matrix: NY Non-Potable Water

Sample ID: **TB11** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/16/16 12:03	TMP	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C			6/16/16 12:03	TMP	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C			6/16/16 12:03	TMP	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/16/16 12:03	TMP	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C			6/16/16 12:03	TMP	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C			6/16/16 12:03	TMP	A
Toluene	0.29J	J	ug/L	1.0	0.23	SW846 8260C			6/16/16 12:03	TMP	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C			6/16/16 12:03	TMP	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C			6/16/16 12:03	TMP	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C			6/16/16 12:03	TMP	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			6/16/16 12:03	TMP	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/16/16 12:03	TMP	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/16/16 12:03	TMP	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			6/16/16 12:03	TMP	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			6/16/16 12:03	TMP	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			6/16/16 12:03	TMP	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			6/16/16 12:03	TMP	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.3		%	62 - 133	SW846 8260C			6/16/16 12:03	TMP	A
4-Bromofluorobenzene (S)	107		%	79 - 114	SW846 8260C			6/16/16 12:03	TMP	A
Dibromofluoromethane (S)	88.1		%	78 - 116	SW846 8260C			6/16/16 12:03	TMP	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260C			6/16/16 12:03	TMP	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2150468001	1	CS-LF044	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 33 and the control limits were 50 to 200.				
2150468001	2	CS-LF044	SW846 8270D	3,3-Dichlorobenzidine
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 36.5 and the control limits were 50 to 200.				
2150468001	3	CS-LF044	SW846 8270D	4-Chloroaniline
The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 39.7 and the control limits were 50 to 200.				
2150468001	4	CS-LF044	SW846 8270D	4-Chloroaniline
The QC sample type LCSD for method SW846 8270D was outside the control limits for the analyte 4-Chloroaniline. The % Recovery was reported as 38.5 and the control limits were 50 to 200.				
2150468001	5	CS-LF044	600/4-81-045	Aroclor-1016
The QC sample type MS for method 600/4-81-045 was outside the control limits for the analyte Aroclor-1016. The % Recovery was reported as 244 and the control limits were 49 to 169.				
2150468001	6	CS-LF044	600/4-81-045	Aroclor-1016
The QC sample type MSD for method 600/4-81-045 was outside the control limits for the analyte Aroclor-1016. The % Recovery was reported as 266 and the control limits were 49 to 169.				
2150468001	7	CS-LF044	600/4-81-045	Aroclor-1260
The QC sample type MS for method 600/4-81-045 was outside the control limits for the analyte Aroclor-1260. The % Recovery was reported as 154 and the control limits were 68 to 150.				
2150468001	8	CS-LF044	600/4-81-045	Aroclor-1260
The QC sample type MSD for method 600/4-81-045 was outside the control limits for the analyte Aroclor-1260. The % Recovery was reported as 174 and the control limits were 68 to 150.				
2150468001	9	CS-LF044	600/4-81-045	Tetrachloro-m-xylene
The surrogate Tetrachloro-m-xylene for method 600/4-81-045 was outside of control limits. The % Recovery was reported as 209 and the control limits were 74 to 152. This result was reported at a dilution of 1.				
2150468001	10	CS-LF044	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is considered to be ignitable. (Ref 40 CFR 261.21)				
2150468001	11	CS-LF044	SW-846 1010A	Flashpoint/Ignitability
Sample flashed at 50 degrees F				
2150468001	12	CS-LF044	SW846 9045D	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				

Monday, June 20, 2016 9:23:58 AM
Page 14 of 15

ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Courier: FedEx Ground
Tracking #: 784708309774

* 2150468 *

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Co. Name: CB&I Environmental & Infrastructure Inc
Contact (Report to): Brian Neumann Phone: 518-785-2354
Address: 13 British American Blvd, Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] Y brian.neumann@CBI.com
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	***Container Type	***Container Size	***Preservative	VOCs 8260C	SVOCs 8270D	Pesticides 8081B	PCBs 8082A	Metals (Total) 6010C/7471B (mercury) + Cr+6 7196A	Reactivity / Corrosivity	Ignitability 1030	Herbicides 8151A
									Enter Number of Containers Per Analysis							
1 CS-LF044	Warning - see attached	7-8-16	1150	G	OL	CG	40 mL	None	3	1	1	1	1	1	1	1
2 TB11				—		AG	1L		3							
3						AG	1L									
4						AG	1L									
5						PL	500 mL									
6						← PL	← 500mL	→								
7						AG	1L									
8																

6/10/16 2543

SAMPLED BY (Please Print): Adam Norrelle

Project Comments: *See QAPP

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature] / CBI	6-8-16	1505	2 Brian McKiernan	6/8/16	3:25
3 Brian McKiernan	6-9-16	1700	4 [signature]	6/10/16	1425
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] rev
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
EXTENSION

(completed by Sample Receiving)
Performed by:
Cooler Temp: 2C
Therm. ID: #352
No. of Coolers:
Notes:

Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
Y N	Y N	Y N	Y N	

Custody seals Present?	(If present) Seals intact?	Received on Ice?	COC/Labels complete/accurate?	Container in good condition?
Y N	N	Y N	Y N	Y N

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 01-2013

WARNING: Sample CS-LF044 is highly volatile and likely is composed of or contains acetone.

Drum / Container Sampling Log

Project Name / Number: Luther Forest-GE MRFA Drum Excavation / 155446

Project Location: Malta Rocket Fuel Area – Northeast Debris Area, Malta, NY

Date	6-8-16
Container ID #	LF044
Original Container Location	
Original Container Type	55-gallon 2 ring steel
Original Container Size	55-gallon
Original Container Condition	damaged
Original Container Labels / Markings	5-1
Outer / Overpack Container Type	
Spill or Leak? (Y/N)	No
Vapor? (Y/N)	No
PID Reading (ppm)	100 (~500 ppm from headspace of sample container)
LEL Reading (%)	100
Oxygen Reading (%)	20.9
Physcial State (Liquid / Solid / Sludge / Powder)	liquid
Color	Clear to very light brown
Notes	Solvent characteristics; likely acetone due to similarities with LF021; highly volatile.
Sampler Name	A. Norvelle
Inside Container Sample ID # / Time	CS-LF044 / 6-8-16 @ 1150
Soil Under Contaner Sample ID # / Time	—
Terrain	
Weather Conditions	
Photograp(s)? (Y/N)	

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

June 17, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2150380**
Purchase Order:		Workorder ID:	**CBR019|Malta Rocket Fue/154035**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Friday, June 10, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2150380001	CS-LF048-LF049	Solid	6/9/2016 08:50	6/10/2016 14:25	Collected by Client
2150380002	SS-LF001-COMPOSITE	Solid	6/9/2016 10:40	6/10/2016 14:25	Collected by Client

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

PROJECT SUMMARY

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Sample Comments

Lab ID: 2150380001 **Sample ID:** CS-LF048-LF049 **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2150380002 **Sample ID:** SS-LF001-COMPOSITE **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380001** Date Collected: 6/9/2016 08:50 Matrix: Solid

Sample ID: **CS-LF048-LF049** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	971 U	U	ug/kg	971	301	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Acetonitrile	1940 U	U	ug/kg	1940	233	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Acrolein	2430 U	U	ug/kg	2430	291	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Acrylonitrile	485 U	U	ug/kg	485	116	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Benzene	97.1 U	U	ug/kg	97.1	22.3	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Benzyl Chloride	485 U	U,2	ug/kg	485	44.6	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Bromobenzene	97.1 U	U	ug/kg	97.1	31.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Bromochloromethane	97.1 U	U	ug/kg	97.1	31.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Bromodichloromethane	97.1 U	U	ug/kg	97.1	26.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Bromoform	97.1 U	U	ug/kg	97.1	38.8	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Bromomethane	174J	J	ug/kg	485	37.9	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
2-Butanone	971 U	U	ug/kg	971	175	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
tert-Butyl Alcohol	971 U	U	ug/kg	971	214	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
n-Butylbenzene	194 U	U	ug/kg	194	58.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
tert-Butylbenzene	194 U	U	ug/kg	194	42.7	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
sec-Butylbenzene	97.1 U	U	ug/kg	97.1	30.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Carbon Disulfide	97.1 U	U	ug/kg	97.1	22.3	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Carbon Tetrachloride	97.1 U	U	ug/kg	97.1	30.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Chlorobenzene	97.1 U	U	ug/kg	97.1	18.4	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Chlorodibromomethane	97.1 U	U	ug/kg	97.1	43.7	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Chloroethane	97.1 U	U	ug/kg	97.1	32.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Chloroform	97.1 U	U	ug/kg	97.1	20.4	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Chloromethane	180J	J	ug/kg	485	30.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Chloroprene	97.1 U	U	ug/kg	97.1	47.6	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
3-Chloro-1-propene	97.1 U	U	ug/kg	97.1	25.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
o-Chlorotoluene	97.1 U	U	ug/kg	97.1	25.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
p-Chlorotoluene	97.1 U	U	ug/kg	97.1	32.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Cyclohexane	97.1 U	U	ug/kg	97.1	28.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,2-Dibromo-3-chloropropane	679 U	U	ug/kg	679	146	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,2-Dibromoethane	97.1 U	U	ug/kg	97.1	27.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Dibromomethane	97.1 U	U	ug/kg	97.1	30.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,2-Dichlorobenzene	97.1 U	U	ug/kg	97.1	36.9	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,3-Dichlorobenzene	97.1 U	U	ug/kg	97.1	24.3	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,4-Dichlorobenzene	97.1 U	U	ug/kg	97.1	26.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Dichlorodifluoromethane	97.1 U	U	ug/kg	97.1	32.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,1-Dichloroethane	97.1 U	U	ug/kg	97.1	27.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380001** Date Collected: 6/9/2016 08:50 Matrix: Solid

Sample ID: **CS-LF048-LF049** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	97.1 U	U	ug/kg	97.1	31.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,1-Dichloroethene	97.1 U	U	ug/kg	97.1	28.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
cis-1,2-Dichloroethene	97.1 U	U	ug/kg	97.1	31.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
trans-1,2-Dichloroethene	97.1 U	U	ug/kg	97.1	25.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,3-Dichloropropane	97.1 U	U	ug/kg	97.1	26.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
2,2-Dichloropropane	97.1 U	U	ug/kg	97.1	31.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,2-Dichloropropane	97.1 U	U	ug/kg	97.1	23.3	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,1-Dichloropropene	97.1 U	U	ug/kg	97.1	26.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
cis-1,3-Dichloropropene	97.1 U	U	ug/kg	97.1	30.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
trans-1,3-Dichloropropene	97.1 U	U	ug/kg	97.1	28.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,4-Dioxane	31100 U	U	ug/kg	31100	5720	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Ethyl Methacrylate	97.1 U	U	ug/kg	97.1	31.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Ethyl Acetate	194 U	U	ug/kg	194	31.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Ethylbenzene	97.1 U	U	ug/kg	97.1	33.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Freon 113	97.1 U	U	ug/kg	97.1	25.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
2-Hexanone	485 U	U	ug/kg	485	126	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Isobutyl alcohol	7280 U	U	ug/kg	7280	1210	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Isopropylbenzene	97.1 U	U	ug/kg	97.1	21.4	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
p-Isopropyltoluene	97.1 U	U	ug/kg	97.1	31.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Methacrylonitrile	194 U	U	ug/kg	194	53.4	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Methyl methacrylate	291 U	U	ug/kg	291	48.5	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Methyl acetate	592		ug/kg	194	31.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Methyl cyclohexane	97.1 U	U	ug/kg	97.1	29.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Methyl t-Butyl Ether	97.1 U	U	ug/kg	97.1	32.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
4-Methyl-2-Pentanone(MIBK)	485 U	U	ug/kg	485	146	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Methylene Chloride	98.9		ug/kg	97.1	43.7	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Naphthalene	194 U	U	ug/kg	194	33.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Propionitrile	971 U	U	ug/kg	971	252	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
n-Propylbenzene	97.1 U	U	ug/kg	97.1	32.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Styrene	97.1 U	U	ug/kg	97.1	23.3	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,1,1,2-Tetrachloroethane	97.1 U	U	ug/kg	97.1	34.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,1,2,2-Tetrachloroethane	97.1 U	U	ug/kg	97.1	33.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Tetrachloroethene	97.1 U	U	ug/kg	97.1	34.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Toluene	97.1 U	U	ug/kg	97.1	22.3	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Total Xylenes	291 U	U	ug/kg	291	64.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,2,4-Trichlorobenzene	194 U	U	ug/kg	194	79.6	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,1,1-Trichloroethane	97.1 U	U	ug/kg	97.1	21.4	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,1,2-Trichloroethane	97.1 U	U	ug/kg	97.1	32.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380001** Date Collected: 6/9/2016 08:50 Matrix: Solid

Sample ID: **CS-LF048-LF049** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	97.1 U	U	ug/kg	97.1	32.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Trichlorofluoromethane	97.1 U	U	ug/kg	97.1	23.3	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,2,3-Trichloropropane	194 U	U	ug/kg	194	58.2	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,2,4-Trimethylbenzene	97.1 U	U	ug/kg	97.1	24.3	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
1,3,5-Trimethylbenzene	97.1 U	U	ug/kg	97.1	19.4	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Vinyl Acetate	485 U	U	ug/kg	485	155	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Vinyl Chloride	97.1 U	U	ug/kg	97.1	29.1	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
o-Xylene	97.1 U	U	ug/kg	97.1	32.0	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
mp-Xylene	194 U	U	ug/kg	194	50.5	SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97		%	71 - 146		SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
4-Bromofluorobenzene (S)	111		%	46 - 138		SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Dibromofluoromethane (S)	81.5		%	42 - 143		SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
Toluene-d8 (S)	110		%	54 - 141		SW846 8260C	6/10/16 18:48	CPK	6/15/16 18:38	TMP	A
SEMIVOLATILES											
Acenaphthene	72.1 U	U	ug/kg	72.1	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Acenaphthylene	72.1 U	U	ug/kg	72.1	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Acetophenone	144 U	U	ug/kg	144	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Aniline	288 U	U	ug/kg	288	21.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Anthracene	72.1 U	U	ug/kg	72.1	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Atrazine	144 U	U	ug/kg	144	15.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Benzaldehyde	288 U	U	ug/kg	288	24.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Benzidine	288 U	U	ug/kg	288	46.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Benzo(a)anthracene	72.1 U	U	ug/kg	72.1	7.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Benzo(a)pyrene	72.1 U	U	ug/kg	72.1	5.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Benzo(b)fluoranthene	72.1 U	U	ug/kg	72.1	7.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Benzo(g,h,i)perylene	72.1 U	U	ug/kg	72.1	7.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Benzoic acid	779 U	U	ug/kg	779	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Benzo(k)fluoranthene	72.1 U	U	ug/kg	72.1	7.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Benzyl Alcohol	144 U	U	ug/kg	144	26.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Biphenyl	144 U	U	ug/kg	144	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
4-Bromophenyl-phenylether	144 U	U	ug/kg	144	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Butylbenzylphthalate	144 U	U	ug/kg	144	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Caprolactam	288 U	U	ug/kg	288	26.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Carbazole	144 U	U	ug/kg	144	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
4-Chloro-3-methylphenol	288 U	U	ug/kg	288	14.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
4-Chloroaniline	288 U	U	ug/kg	288	17.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D

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ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380001** Date Collected: 6/9/2016 08:50 Matrix: Solid

Sample ID: **CS-LF048-LF049** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	144 U	U	ug/kg	144	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
bis(2-Chloroethyl)ether	144 U	U	ug/kg	144	18.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
bis(2-Chloroisopropyl)ether	144 U	U	ug/kg	144	21.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2-Chloronaphthalene	144 U	U	ug/kg	144	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2-Chlorophenol	288 U	U	ug/kg	288	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
4-Chlorophenyl-phenylether	144 U	U	ug/kg	144	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Chrysene	72.1 U	U	ug/kg	72.1	7.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
mp-Cresol	288 U	U	ug/kg	288	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
o-Cresol	288 U	U	ug/kg	288	15.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Di-n-Butylphthalate	144 U	U	ug/kg	144	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Di-n-Octylphthalate	144 U	U	ug/kg	144	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Dibenzo(a,h)anthracene	72.1 U	U	ug/kg	72.1	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Dibenzofuran	144 U	U	ug/kg	144	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
1,2-Dichlorobenzene	144 U	U	ug/kg	144	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
1,3-Dichlorobenzene	144 U	U	ug/kg	144	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
1,4-Dichlorobenzene	144 U	U	ug/kg	144	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
3,3-Dichlorobenzidine	288 U	U	ug/kg	288	54.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2,4-Dichlorophenol	288 U	U	ug/kg	288	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2,6-Dichlorophenol	288 U	U	ug/kg	288	15.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Diethylphthalate	25.2J	J	ug/kg	144	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Dimethoate	288 U	U	ug/kg	288	15.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2,4-Dimethylphenol	288 U	U	ug/kg	288	21.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Dimethylphthalate	144 U	U	ug/kg	144	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
1,2-Dinitrobenzene	144 U	U	ug/kg	144	27.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
1,4-Dinitrobenzene	144 U	U	ug/kg	144	20.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2,4-Dinitrophenol	288 U	U	ug/kg	288	57.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2,4-Dinitrotoluene	144 U	U	ug/kg	144	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2,6-Dinitrotoluene	144 U	U	ug/kg	144	17.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Diphenylamine	144 U	U	ug/kg	144	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
1,2-Diphenylhydrazine	144 U	U	ug/kg	144	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
bis(2-Ethylhexyl)phthalate	144 U	U	ug/kg	144	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Fluoranthene	72.1 U	U	ug/kg	72.1	7.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Fluorene	72.1 U	U	ug/kg	72.1	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Hexachlorobenzene	144 U	U	ug/kg	144	15.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Hexachlorobutadiene	144 U	U	ug/kg	144	14.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Hexachlorocyclopentadiene	288 U	U	ug/kg	288	15.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Hexachloroethane	144 U	U	ug/kg	144	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Indeno(1,2,3-cd)pyrene	72.1 U	U	ug/kg	72.1	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380001** Date Collected: 6/9/2016 08:50 Matrix: Solid

Sample ID: **CS-LF048-LF049** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	144 U	U	ug/kg	144	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2-Methyl-4,6-dinitrophenol	288 U	U	ug/kg	288	37.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2-Methylnaphthalene	144 U	U	ug/kg	144	7.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2-Naphthylamine	288 U	U	ug/kg	288	23.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Naphthalene	72.1 U	U	ug/kg	72.1	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2-Nitroaniline	288 U	U	ug/kg	288	17.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
3-Nitroaniline	288 U	U	ug/kg	288	28.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
4-Nitroaniline	288 U	U	ug/kg	288	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Nitrobenzene	144 U	U	ug/kg	144	17.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2-Nitrophenol	288 U	U	ug/kg	288	15.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
4-Nitrophenol	288 U	U	ug/kg	288	20.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
N-Nitrosodi-n-butylamine	144 U	U	ug/kg	144	15.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
N-Nitrosodiethylamine	144 U	U	ug/kg	144	18.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
N-Nitrosodimethylamine	144 U	U	ug/kg	144	21.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
N-Nitroso-di-n-propylamine	144 U	U	ug/kg	144	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
N-Nitrosodiphenylamine	144 U	U	ug/kg	144	11.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
N-Nitrosopyrrolidine	144 U	U	ug/kg	144	17.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Pentachlorobenzene	144 U	U	ug/kg	144	15.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Pentachlorophenol	288 U	U	ug/kg	288	37.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Phenanthrene	72.1 U	U	ug/kg	72.1	7.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Phenol	288 U	U	ug/kg	288	14.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Pyrene	72.1 U	U	ug/kg	72.1	7.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Pyridine	288 U	U	ug/kg	288	26.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Resorcinol	144 U	U	ug/kg	144	20.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
1,2,4,5-Tetrachlorobenzene	144 U	U	ug/kg	144	10.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2,3,4,6-Tetrachlorophenol	288 U	U	ug/kg	288	17.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
1,2,4-Trichlorobenzene	144 U	U	ug/kg	144	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2,4,5-Trichlorophenol	288 U	U	ug/kg	288	17.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2,4,6-Trichlorophenol	288 U	U	ug/kg	288	17.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	75.4		%	19 - 132	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2-Fluorobiphenyl (S)	73.1		%	40 - 110	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
2-Fluorophenol (S)	65.8		%	26 - 116	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Nitrobenzene-d5 (S)	69.1		%	38 - 112	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Phenol-d5 (S)	60.9		%	35 - 111	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D
Terphenyl-d14 (S)	83.6		%	45 - 126	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:13	EGO	D

PCBs

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380001** Date Collected: 6/9/2016 08:50 Matrix: Solid

Sample ID: **CS-LF048-LF049** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	0.13		mg/kg	0.048	0.048	SW846 8082A	6/13/16 08:30	KJH	6/13/16 17:11	EGO	D
Aroclor-1016	0.048 U	U	mg/kg	0.048	0.0087	SW846 8082A	6/13/16 08:30	KJH	6/13/16 17:11	EGO	D
Aroclor-1221	0.048 U	U	mg/kg	0.048	0.0044	SW846 8082A	6/13/16 08:30	KJH	6/13/16 17:11	EGO	D
Aroclor-1232	0.048 U	U	mg/kg	0.048	0.0087	SW846 8082A	6/13/16 08:30	KJH	6/13/16 17:11	EGO	D
Aroclor-1242	0.048 U	U	mg/kg	0.048	0.013	SW846 8082A	6/13/16 08:30	KJH	6/13/16 17:11	EGO	D
Aroclor-1248	0.048 U	U	mg/kg	0.048	0.0087	SW846 8082A	6/13/16 08:30	KJH	6/13/16 17:11	EGO	D
Aroclor-1254	0.13		mg/kg	0.048	0.0087	SW846 8082A	6/13/16 08:30	KJH	6/13/16 17:11	EGO	D
Aroclor-1260	0.048 U	U	mg/kg	0.048	0.0087	SW846 8082A	6/13/16 08:30	KJH	6/13/16 17:11	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	102		%	49 - 115		SW846 8082A	6/13/16 08:30	KJH	6/13/16 17:11	EGO	D
Tetrachloro-m-xylene (S)	71.7		%	27 - 137		SW846 8082A	6/13/16 08:30	KJH	6/13/16 17:11	EGO	D
PESTICIDES											
Aldrin	12.3 U	U	ug/kg	12.3	4.0	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
alpha-BHC	12.3 U	U	ug/kg	12.3	1.1	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
beta-BHC	12.3 U	U	ug/kg	12.3	1.3	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
delta-BHC	12.3 U	U	ug/kg	12.3	0.94	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
gamma-BHC	12.3 U	U	ug/kg	12.3	1.0	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
alpha-Chlordane	12.3 U	U	ug/kg	12.3	1.3	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
gamma-Chlordane	12.3 U	U	ug/kg	12.3	2.1	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
4,4'-DDD	24.0 U	U	ug/kg	24.0	2.0	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
4,4'-DDE	24.0 U	U	ug/kg	24.0	3.3	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
4,4'-DDT	24.0 U	U	ug/kg	24.0	2.8	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Dieldrin	24.0 U	U	ug/kg	24.0	2.8	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Endosulfan I	12.3 U	U	ug/kg	12.3	1.5	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Endosulfan II	24.0 U	U	ug/kg	24.0	5.0	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Endosulfan Sulfate	24.0 U	U	ug/kg	24.0	1.6	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Endrin	24.0 U	U	ug/kg	24.0	1.7	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Endrin Aldehyde	24.0 U	U	ug/kg	24.0	2.6	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Endrin Ketone	24.0 U	U	ug/kg	24.0	3.3	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Heptachlor	12.3 U	U	ug/kg	12.3	1.2	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Heptachlor Epoxide	12.3 U	U	ug/kg	12.3	1.2	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Methoxychlor	24.0 U	U	ug/kg	24.0	3.2	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Toxaphene	254 U	U	ug/kg	254	42.1	SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	67.3		%	30 - 135		SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D
Tetrachloro-m-xylene (S)	59		%	30 - 111		SW846 8081B	6/13/16 08:30	MPP	6/14/16 19:13	RWS	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380001** Date Collected: 6/9/2016 08:50 Matrix: Solid

Sample ID: **CS-LF048-LF049** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
HERBICIDES											
2,4-D	97.0 U	U	ug/kg	97.0	37.6	SW846 8151A	6/14/16 05:15	VLM	6/14/16 22:41	KJH	D
2,4-DB	97.0 U	U	ug/kg	97.0	52.1	SW846 8151A	6/14/16 05:15	VLM	6/14/16 22:41	KJH	D
Dalapon	97.0 U	U	ug/kg	97.0	24.6	SW846 8151A	6/14/16 05:15	VLM	6/14/16 22:41	KJH	D
Dicamba	97.0 U	U	ug/kg	97.0	34.7	SW846 8151A	6/14/16 05:15	VLM	6/14/16 22:41	KJH	D
Dichloroprop	97.0 U	U	ug/kg	97.0	39.1	SW846 8151A	6/14/16 05:15	VLM	6/14/16 22:41	KJH	D
Dinoseb	242 U	U	ug/kg	242	49.2	SW846 8151A	6/14/16 05:15	VLM	6/14/16 22:41	KJH	D
4-Nitrophenol	97.0 U	U	ug/kg	97.0	33.3	SW846 8151A	6/14/16 05:15	VLM	6/14/16 22:41	KJH	D
2,4,5-T	97.0 U	U	ug/kg	97.0	40.5	SW846 8151A	6/14/16 05:15	VLM	6/14/16 22:41	KJH	D
2,4,5-TP	97.0 U	U	ug/kg	97.0	44.9	SW846 8151A	6/14/16 05:15	VLM	6/14/16 22:41	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	72.8		%	36 - 113		SW846 8151A	6/14/16 05:15	VLM	6/14/16 22:41	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	0.015J	J	ppm	10	0.011	SW-846 7.3CN	6/14/16 15:00	MLM	6/15/16 01:09	LJF	D
Hexavalent Chromium	0.91J	J	mg/kg	2.9	0.56	SW846 7196A	6/16/16 14:00	MLM	6/16/16 20:00	MLM	D
Ignitability	Not ignitable	1				SW846 1030			6/14/16 12:15	SDL	D
Moisture	31.1		%	0.1	0.01	S2540G-11			6/13/16 09:42	SLC	D
Sulfide, Reactive	6.2 U	U	ppm	6.2	1.2	SW846 7.3	6/14/16 15:00	MLM	6/15/16 15:00	MLM	D
Total Solids	68.9		%	0.1	0.01	S2540G-11			6/13/16 09:42	SLC	D
METALS											
Aluminum, Total	674000		mg/kg	145	48.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Antimony, Total	29.0 U	U	mg/kg	29.0	9.7	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Arsenic, Total	129		mg/kg	29.0	9.7	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Barium, Total	14.5 U	U	mg/kg	14.5	4.8	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Beryllium, Total	14.5 U	U	mg/kg	14.5	4.8	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Cadmium, Total	7.3 U	U	mg/kg	7.3	2.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Calcium, Total	301		mg/kg	145	48.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Chromium, Total	15800		mg/kg	14.5	4.8	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Cobalt, Total	14.5 U	U	mg/kg	14.5	4.8	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Copper, Total	105		mg/kg	29.0	9.7	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Iron, Total	10700		mg/kg	145	48.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Lead, Total	33.4		mg/kg	29.0	9.7	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Magnesium, Total	1420		mg/kg	145	48.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Manganese, Total	104		mg/kg	14.5	4.8	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Mercury, Total	0.063 U	U	mg/kg	0.063	0.020	SW846 7471B	6/15/16 10:00	MNP	6/15/16 12:49	MNP	D2

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380001** Date Collected: 6/9/2016 08:50 Matrix: Solid

Sample ID: **CS-LF048-LF049** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Nickel, Total	17.6J	J	mg/kg	29.0	9.7	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Potassium, Total	726 U	U	mg/kg	726	242	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Selenium, Total	72.6 U	U	mg/kg	72.6	24.2	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Silver, Total	7.3 U	U	mg/kg	7.3	2.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Sodium, Total	5560		mg/kg	726	242	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Thallium, Total	43.6 U	U	mg/kg	43.6	14.5	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Vanadium, Total	81.0		mg/kg	14.5	4.8	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1
Zinc, Total	67.4		mg/kg	29.0	9.7	SW846 6010C	6/13/16 11:00	JPS	6/16/16 05:40	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380002** Date Collected: 6/9/2016 10:40 Matrix: Solid

Sample ID: **SS-LF001-COMPOSITE** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	2260		ug/kg	611	189	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Acetonitrile	1220 U	U	ug/kg	1220	147	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Acrolein	1530 U	U	ug/kg	1530	183	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Acrylonitrile	305 U	U	ug/kg	305	73.3	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Benzene	61.1 U	U	ug/kg	61.1	14.0	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Benzyl Chloride	305 U	U,12	ug/kg	305	28.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Bromobenzene	61.1 U	U	ug/kg	61.1	19.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Bromochloromethane	61.1 U	U	ug/kg	61.1	19.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Bromodichloromethane	61.1 U	U	ug/kg	61.1	16.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Bromoform	61.1 U	U	ug/kg	61.1	24.4	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Bromomethane	180J	J	ug/kg	305	23.8	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
2-Butanone	611 U	U	ug/kg	611	110	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
tert-Butyl Alcohol	611 U	U	ug/kg	611	134	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
n-Butylbenzene	6510		ug/kg	122	36.6	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
tert-Butylbenzene	122 U	U	ug/kg	122	26.9	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
sec-Butylbenzene	3480		ug/kg	61.1	18.9	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Carbon Disulfide	61.1 U	U	ug/kg	61.1	14.0	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Carbon Tetrachloride	14200		ug/L	611	189	SW846 8260C	6/10/16 18:50	TMP	6/16/16 18:18	TMP	A
Chlorobenzene	61.1 U	U	ug/kg	61.1	11.6	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Chlorodibromomethane	61.1 U	U	ug/kg	61.1	27.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Chloroethane	61.1 U	U	ug/kg	61.1	20.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Chloroform	1480		ug/kg	61.1	12.8	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Chloromethane	136J	J	ug/kg	305	18.9	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Chloroprene	61.1 U	U	ug/kg	61.1	29.9	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
3-Chloro-1-propene	61.1 U	U	ug/kg	61.1	15.9	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
o-Chlorotoluene	61.1 U	U	ug/kg	61.1	15.9	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
p-Chlorotoluene	61.1 U	U	ug/kg	61.1	20.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Cyclohexane	61.1 U	U	ug/kg	61.1	17.7	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,2-Dibromo-3-chloropropane	427 U	U	ug/kg	427	91.6	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,2-Dibromoethane	61.1 U	U	ug/kg	61.1	17.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Dibromomethane	61.1 U	U	ug/kg	61.1	18.9	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,2-Dichlorobenzene	61.1 U	U	ug/kg	61.1	23.2	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,3-Dichlorobenzene	61.1 U	U	ug/kg	61.1	15.3	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,4-Dichlorobenzene	61.1 U	U	ug/kg	61.1	16.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Dichlorodifluoromethane	61.1 U	U	ug/kg	61.1	20.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,1-Dichloroethane	61.1 U	U	ug/kg	61.1	17.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380002** Date Collected: 6/9/2016 10:40 Matrix: Solid

Sample ID: **SS-LF001-COMPOSITE** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	61.1 U	U	ug/kg	61.1	19.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,1-Dichloroethene	61.1 U	U	ug/kg	61.1	17.7	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
cis-1,2-Dichloroethene	61.1 U	U	ug/kg	61.1	19.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
trans-1,2-Dichloroethene	61.1 U	U	ug/kg	61.1	15.9	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,3-Dichloropropane	61.1 U	U	ug/kg	61.1	16.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
2,2-Dichloropropane	61.1 U	U	ug/kg	61.1	19.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,2-Dichloropropane	61.1 U	U	ug/kg	61.1	14.7	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,1-Dichloropropene	61.1 U	U	ug/kg	61.1	16.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
cis-1,3-Dichloropropene	61.1 U	U	ug/kg	61.1	18.9	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
trans-1,3-Dichloropropene	61.1 U	U	ug/kg	61.1	17.7	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,4-Dioxane	19500 U	U	ug/kg	19500	3600	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Ethyl Methacrylate	61.1 U	U	ug/kg	61.1	19.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Ethyl Acetate	122 U	U	ug/kg	122	19.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Ethylbenzene	1960		ug/kg	61.1	20.8	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Freon 113	61.1 U	U	ug/kg	61.1	15.9	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
2-Hexanone	305 U	U	ug/kg	305	79.4	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Isobutyl alcohol	4580 U	U	ug/kg	4580	763	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Isopropylbenzene	2010		ug/kg	61.1	13.4	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
p-Isopropyltoluene	5080		ug/kg	61.1	19.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Methacrylonitrile	122 U	U	ug/kg	122	33.6	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Methyl methacrylate	183 U	U	ug/kg	183	30.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Methyl acetate	122 U	U	ug/kg	122	19.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Methyl cyclohexane	2200		ug/kg	61.1	18.3	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Methyl t-Butyl Ether	61.1 U	U	ug/kg	61.1	20.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
4-Methyl-2-Pentanone(MIBK)	305 U	U	ug/kg	305	91.6	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Methylene Chloride	61.1 U	U	ug/kg	61.1	27.5	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Naphthalene	38600		ug/L	1220	208	SW846 8260C	6/10/16 18:50	TMP	6/16/16 18:18	TMP	A
Propionitrile	611 U	U	ug/kg	611	159	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
n-Propylbenzene	4560		ug/kg	61.1	20.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Styrene	61.1 U	U	ug/kg	61.1	14.7	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,1,1,2-Tetrachloroethane	61.1 U	U	ug/kg	61.1	21.4	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,1,2,2-Tetrachloroethane	61.1 U	U	ug/kg	61.1	20.8	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Tetrachloroethene	61.1 U	U	ug/kg	61.1	21.4	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Toluene	1330		ug/kg	61.1	14.0	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Total Xylenes	24400		ug/kg	183	40.3	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,2,4-Trichlorobenzene	122 U	U	ug/kg	122	50.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,1,1-Trichloroethane	61.1 U	U	ug/kg	61.1	13.4	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,1,2-Trichloroethane	61.1 U	U	ug/kg	61.1	20.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380002** Date Collected: 6/9/2016 10:40 Matrix: Solid

Sample ID: **SS-LF001-COMPOSITE** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	73.8		ug/kg	61.1	20.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Trichlorofluoromethane	61.1 U	U	ug/kg	61.1	14.7	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,2,3-Trichloropropane	122 U	U	ug/kg	122	36.6	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
1,2,4-Trimethylbenzene	39400		ug/L	611	153	SW846 8260C	6/10/16 18:50	TMP	6/16/16 18:18	TMP	A
1,3,5-Trimethylbenzene	10300		ug/L	611	122	SW846 8260C	6/10/16 18:50	TMP	6/16/16 18:18	TMP	A
Vinyl Acetate	305 U	U	ug/kg	305	97.7	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Vinyl Chloride	61.1 U	U	ug/kg	61.1	18.3	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
o-Xylene	8340		ug/kg	61.1	20.1	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
mp-Xylene	16100		ug/kg	122	31.8	SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	95.8		%	71 - 146		SW846 8260C	6/10/16 18:50	TMP	6/16/16 18:18	TMP	A
1,2-Dichloroethane-d4 (S)	94.5		%	71 - 146		SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
4-Bromofluorobenzene (S)	102		%	46 - 138		SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
4-Bromofluorobenzene (S)	87.3		%	46 - 138		SW846 8260C	6/10/16 18:50	TMP	6/16/16 18:18	TMP	A
Dibromofluoromethane (S)	107		%	42 - 143		SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Dibromofluoromethane (S)	89.4		%	42 - 143		SW846 8260C	6/10/16 18:50	TMP	6/16/16 18:18	TMP	A
Toluene-d8 (S)	93.4		%	54 - 141		SW846 8260C	6/10/16 18:50	CPK	6/15/16 18:55	TMP	A
Toluene-d8 (S)	94.3		%	54 - 141		SW846 8260C	6/10/16 18:50	TMP	6/16/16 18:18	TMP	A
SEMIVOLATILES											
Acenaphthene	54.3 U	U	ug/kg	54.3	6.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Acenaphthylene	54.3 U	U	ug/kg	54.3	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Acetophenone	109 U	U	ug/kg	109	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Aniline	217 U	U	ug/kg	217	16.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Anthracene	54.3 U	U	ug/kg	54.3	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Atrazine	109 U	U	ug/kg	109	12.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Benzaldehyde	217 U	U	ug/kg	217	18.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Benzidine	217 U	U	ug/kg	217	34.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Benzo(a)anthracene	108		ug/kg	54.3	5.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Benzo(a)pyrene	54.3 U	U	ug/kg	54.3	4.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Benzo(b)fluoranthene	54.3 U	U	ug/kg	54.3	5.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Benzo(g,h,i)perylene	54.3 U	U	ug/kg	54.3	5.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Benzoic acid	587 U	U	ug/kg	587	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Benzo(k)fluoranthene	54.3 U	U	ug/kg	54.3	5.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Benzyl Alcohol	109 U	U	ug/kg	109	19.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Biphenyl	2900		ug/kg	109	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
4-Bromophenyl-phenylether	109 U	U	ug/kg	109	9.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Butylbenzylphthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380002** Date Collected: 6/9/2016 10:40 Matrix: Solid

Sample ID: **SS-LF001-COMPOSITE** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Caprolactam	217 U	U	ug/kg	217	19.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Carbazole	109 U	U	ug/kg	109	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
4-Chloro-3-methylphenol	217 U	U	ug/kg	217	10.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
4-Chloroaniline	217 U	U	ug/kg	217	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
bis(2-Chloroethoxy)methane	109 U	U	ug/kg	109	9.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
bis(2-Chloroethyl)ether	109 U	U	ug/kg	109	14.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
bis(2-Chloroisopropyl)ether	109 U	U	ug/kg	109	16.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2-Chloronaphthalene	109 U	U	ug/kg	109	6.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2-Chlorophenol	217 U	U	ug/kg	217	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
4-Chlorophenyl-phenylether	109 U	U	ug/kg	109	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Chrysene	196		ug/kg	54.3	5.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
mp-Cresol	217 U	U	ug/kg	217	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
o-Cresol	217 U	U	ug/kg	217	12.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Di-n-Butylphthalate	109 U	U	ug/kg	109	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Di-n-Octylphthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Dibenzo(a,h)anthracene	54.3 U	U	ug/kg	54.3	6.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Dibenzofuran	109 U	U	ug/kg	109	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
1,2-Dichlorobenzene	109 U	U	ug/kg	109	9.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
1,3-Dichlorobenzene	109 U	U	ug/kg	109	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
1,4-Dichlorobenzene	109 U	U	ug/kg	109	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
3,3-Dichlorobenzidine	217 U	U	ug/kg	217	41.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2,4-Dichlorophenol	217 U	U	ug/kg	217	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2,6-Dichlorophenol	217 U	U	ug/kg	217	12.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Diethylphthalate	109 U	U	ug/kg	109	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Dimethoate	217 U	U	ug/kg	217	12.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2,4-Dimethylphenol	217 U	U	ug/kg	217	16.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Dimethylphthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
1,2-Dinitrobenzene	109 U	U	ug/kg	109	20.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
1,4-Dinitrobenzene	109 U	U	ug/kg	109	15.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2,4-Dinitrophenol	217 U	U	ug/kg	217	43.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2,4-Dinitrotoluene	109 U	U	ug/kg	109	9.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2,6-Dinitrotoluene	109 U	U	ug/kg	109	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Diphenylamine	109 U	U	ug/kg	109	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
1,2-Diphenylhydrazine	109 U	U	ug/kg	109	9.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
bis(2-Ethylhexyl)phthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Fluoranthene	54.3 U	U	ug/kg	54.3	5.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Fluorene	1310		ug/kg	54.3	6.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Hexachlorobenzene	109 U	U	ug/kg	109	12.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380002** Date Collected: 6/9/2016 10:40 Matrix: Solid

Sample ID: **SS-LF001-COMPOSITE** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	109 U	U	ug/kg	109	10.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Hexachlorocyclopentadiene	217 U	U	ug/kg	217	12.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Hexachloroethane	109 U	U	ug/kg	109	9.8	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Indeno(1,2,3-cd)pyrene	54.3 U	U	ug/kg	54.3	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Isophorone	109 U	U	ug/kg	109	6.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2-Methyl-4,6-dinitrophenol	217 U	U	ug/kg	217	28.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2-Methylnaphthalene	70300		ug/kg	2170	109	SW846 8270D	6/13/16 06:50	MPP	6/13/16 21:16	EGO	D
2-Naphthylamine	217 U	U	ug/kg	217	17.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Naphthalene	27500		ug/kg	1090	130	SW846 8270D	6/13/16 06:50	MPP	6/13/16 21:16	EGO	D
2-Nitroaniline	217 U	U	ug/kg	217	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
3-Nitroaniline	217 U	U	ug/kg	217	21.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
4-Nitroaniline	217 U	U	ug/kg	217	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Nitrobenzene	109 U	U	ug/kg	109	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2-Nitrophenol	217 U	U	ug/kg	217	12.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
4-Nitrophenol	217 U	U	ug/kg	217	15.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
N-Nitrosodi-n-butylamine	109 U	U	ug/kg	109	12.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
N-Nitrosodiethylamine	109 U	U	ug/kg	109	14.1	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
N-Nitrosodimethylamine	109 U	U	ug/kg	109	16.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
N-Nitroso-di-n-propylamine	109 U	U	ug/kg	109	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
N-Nitrosodiphenylamine	109 U	U	ug/kg	109	8.7	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
N-Nitrosopyrrolidine	109 U	U	ug/kg	109	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Pentachlorobenzene	109 U	U	ug/kg	109	12.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Pentachlorophenol	217 U	U	ug/kg	217	28.3	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Phenanthrene	2070		ug/kg	54.3	5.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Phenol	217 U	U	ug/kg	217	10.9	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Pyrene	258		ug/kg	54.3	5.4	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Pyridine	217 U	U	ug/kg	217	19.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Resorcinol	109 U	U	ug/kg	109	15.2	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
1,2,4,5-Tetrachlorobenzene	109 U	U	ug/kg	109	7.6	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2,3,4,6-Tetrachlorophenol	217 U	U	ug/kg	217	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
1,2,4-Trichlorobenzene	109 U	U	ug/kg	109	6.5	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2,4,5-Trichlorophenol	217 U	U	ug/kg	217	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2,4,6-Trichlorophenol	217 U	U	ug/kg	217	13.0	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	50.4		%	19 - 132	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2,4,6-Tribromophenol (S)	58.6		%	19 - 132	SW846 8270D	6/13/16 06:50	MPP	6/13/16 21:16	EGO	D
2-Fluorobiphenyl (S)	44.3		%	40 - 110	SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
2-Fluorobiphenyl (S)	65.1		%	40 - 110	SW846 8270D	6/13/16 06:50	MPP	6/13/16 21:16	EGO	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380002** Date Collected: 6/9/2016 10:40 Matrix: Solid

Sample ID: **SS-LF001-COMPOSITE** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorophenol (S)	51		%	26 - 116		SW846 8270D	6/13/16 06:50	MPP	6/13/16 21:16	EGO	D
2-Fluorophenol (S)	50		%	26 - 116		SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Nitrobenzene-d5 (S)	64.1		%	38 - 112		SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Nitrobenzene-d5 (S)	52.9		%	38 - 112		SW846 8270D	6/13/16 06:50	MPP	6/13/16 21:16	EGO	D
Phenol-d5 (S)	50.7		%	35 - 111		SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Phenol-d5 (S)	56.2		%	35 - 111		SW846 8270D	6/13/16 06:50	MPP	6/13/16 21:16	EGO	D
Terphenyl-d14 (S)	48.7		%	45 - 126		SW846 8270D	6/13/16 06:50	MPP	6/13/16 16:38	EGO	D
Terphenyl-d14 (S)	71.7		%	45 - 126		SW846 8270D	6/13/16 06:50	MPP	6/13/16 21:16	EGO	D
PCBs											
Total Polychlorinated Biphenyl	0.035 U	U	mg/kg	0.035	0.035	SW846 8082A	6/13/16 08:30	KJH	6/13/16 18:20	EGO	D
Aroclor-1016	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	6/13/16 08:30	KJH	6/13/16 18:20	EGO	D
Aroclor-1221	0.035 U	U	mg/kg	0.035	0.0032	SW846 8082A	6/13/16 08:30	KJH	6/13/16 18:20	EGO	D
Aroclor-1232	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	6/13/16 08:30	KJH	6/13/16 18:20	EGO	D
Aroclor-1242	0.035 U	U	mg/kg	0.035	0.0095	SW846 8082A	6/13/16 08:30	KJH	6/13/16 18:20	EGO	D
Aroclor-1248	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	6/13/16 08:30	KJH	6/13/16 18:20	EGO	D
Aroclor-1254	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	6/13/16 08:30	KJH	6/13/16 18:20	EGO	D
Aroclor-1260	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	6/13/16 08:30	KJH	6/13/16 18:20	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	80.9		%	49 - 115		SW846 8082A	6/13/16 08:30	KJH	6/13/16 18:20	EGO	D
Tetrachloro-m-xylene (S)	107		%	27 - 137		SW846 8082A	6/13/16 08:30	KJH	6/13/16 18:20	EGO	D
PESTICIDES											
Aldrin	8.9 U	U	ug/kg	8.9	2.9	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
alpha-BHC	8.9 U	U	ug/kg	8.9	0.79	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
beta-BHC	8.9 U	U	ug/kg	8.9	0.95	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
delta-BHC	8.9 U	U	ug/kg	8.9	0.68	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
gamma-BHC	8.9 U	U	ug/kg	8.9	0.74	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
alpha-Chlordane	8.9 U	U	ug/kg	8.9	0.95	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
gamma-Chlordane	8.9 U	U	ug/kg	8.9	1.5	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
4,4'-DDD	17.4 U	U	ug/kg	17.4	1.4	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
4,4'-DDE	17.4 U	U	ug/kg	17.4	2.4	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
4,4'-DDT	17.4 U	U	ug/kg	17.4	2.0	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Dieldrin	17.4 U	U	ug/kg	17.4	2.0	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Endosulfan I	8.9 U	U	ug/kg	8.9	1.1	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Endosulfan II	17.4 U	U	ug/kg	17.4	3.6	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Endosulfan Sulfate	17.4 U	U	ug/kg	17.4	1.2	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Endrin	17.4 U	U	ug/kg	17.4	1.3	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380002** Date Collected: 6/9/2016 10:40 Matrix: Solid

Sample ID: **SS-LF001-COMPOSITE** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Endrin Aldehyde	17.4 U	U	ug/kg	17.4	1.9	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Endrin Ketone	17.4 U	U	ug/kg	17.4	2.4	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Heptachlor	8.9 U	U	ug/kg	8.9	0.89	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Heptachlor Epoxide	8.9 U	U	ug/kg	8.9	0.89	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Methoxychlor	17.4 U	U	ug/kg	17.4	2.3	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Toxaphene	184 U	U	ug/kg	184	30.5	SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	61.8		%	30 - 135		SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
Tetrachloro-m-xylene (S)	94.6		%	30 - 111		SW846 8081B	6/13/16 08:30	MPP	6/14/16 18:10	RWS	D
HERBICIDES											
2,4-D	72.6 U	U	ug/kg	72.6	28.2	SW846 8151A	6/14/16 05:15	VLM	6/14/16 23:19	KJH	D
2,4-DB	72.6 U	U	ug/kg	72.6	39.0	SW846 8151A	6/14/16 05:15	VLM	6/14/16 23:19	KJH	D
Dalapon	72.6 U	U	ug/kg	72.6	18.4	SW846 8151A	6/14/16 05:15	VLM	6/14/16 23:19	KJH	D
Dicamba	72.6 U	U	ug/kg	72.6	26.0	SW846 8151A	6/14/16 05:15	VLM	6/14/16 23:19	KJH	D
Dichloroprop	72.6 U	U	ug/kg	72.6	29.2	SW846 8151A	6/14/16 05:15	VLM	6/14/16 23:19	KJH	D
Dinoseb	181 U	U	ug/kg	181	36.8	SW846 8151A	6/14/16 05:15	VLM	6/14/16 23:19	KJH	D
4-Nitrophenol	72.6 U	U	ug/kg	72.6	24.9	SW846 8151A	6/14/16 05:15	VLM	6/14/16 23:19	KJH	D
2,4,5-T	72.6 U	U	ug/kg	72.6	30.3	SW846 8151A	6/14/16 05:15	VLM	6/14/16 23:19	KJH	D
2,4,5-TP	72.6 U	U	ug/kg	72.6	33.6	SW846 8151A	6/14/16 05:15	VLM	6/14/16 23:19	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	54.6		%	36 - 113		SW846 8151A	6/14/16 05:15	VLM	6/14/16 23:19	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	0.015J	J	ppm	10	0.011	SW-846 7.3CN	6/14/16 15:00	MLM	6/15/16 01:09	LJF	D
Hexavalent Chromium	2.1 U	U	mg/kg	2.1	0.41	SW846 7196A	6/16/16 14:00	MLM	6/16/16 20:00	MLM	D
Ignitability	Not ignitable	1				SW846 1030			6/14/16 12:15	SDL	D
Moisture	8.0		%	0.1	0.01	S2540G-11			6/13/16 09:42	SLC	F
Sulfide, Reactive	6.2 U	U	ppm	6.2	1.2	SW846 7.3	6/14/16 15:00	MLM	6/15/16 15:00	MLM	D
Total Solids	92.0		%	0.1	0.01	S2540G-11			6/13/16 09:42	SLC	F
METALS											
Aluminum, Total	5340		mg/kg	10.3	3.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Antimony, Total	2.1 U	U	mg/kg	2.1	0.68	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Arsenic, Total	1.1J	J	mg/kg	2.1	0.68	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Barium, Total	16.0		mg/kg	1.0	0.34	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Beryllium, Total	1.0 U	U	mg/kg	1.0	0.34	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Cadmium, Total	0.51 U	U	mg/kg	0.51	0.17	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2150380 CBR019|Malta Rocket Fue/154035

Lab ID: **2150380002** Date Collected: 6/9/2016 10:40 Matrix: Solid

Sample ID: **SS-LF001-COMPOSITE** Date Received: 6/10/2016 14:25

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Calcium, Total	407		mg/kg	10.3	3.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Chromium, Total	6.5		mg/kg	1.0	0.34	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Cobalt, Total	2.7		mg/kg	1.0	0.34	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Copper, Total	7.6		mg/kg	2.1	0.68	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Iron, Total	9920		mg/kg	10.3	3.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Lead, Total	2.6		mg/kg	2.1	0.68	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Magnesium, Total	1240		mg/kg	10.3	3.4	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Manganese, Total	176		mg/kg	1.0	0.34	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Mercury, Total	0.052 U	U	mg/kg	0.052	0.017	SW846 7471B	6/15/16 10:00	MNP	6/15/16 12:50	MNP	D2
Nickel, Total	6.8		mg/kg	2.1	0.68	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Potassium, Total	533		mg/kg	51.3	17.1	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Selenium, Total	5.1 U	U	mg/kg	5.1	1.7	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Silver, Total	0.51 U	U	mg/kg	0.51	0.17	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Sodium, Total	25.2J	J	mg/kg	51.3	17.1	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Thallium, Total	3.1 U	U	mg/kg	3.1	1.0	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Vanadium, Total	11.9		mg/kg	1.0	0.34	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1
Zinc, Total	25.4		mg/kg	2.1	0.68	SW846 6010C	6/13/16 11:00	JPS	6/16/16 04:19	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2150380001	1	CS-LF048-LF049	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2150380001	2	CS-LF048-LF049	SW846 8260C	Benzyl Chloride
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Benzyl Chloride. The % Recovery was reported as 65 and the control limits were 67 to 125.				
2150380002	1	SS-LF001-COMPOSITE	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2150380002	12	SS-LF001-COMPOSITE	SW846 8260C	Benzyl Chloride
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Benzyl Chloride. The % Recovery was reported as 65 and the control limits were 67 to 125.				

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Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1

Courier:

Tracking #: 647083

2150380

Co. Name: CBI Environmental & Infrastracture Inc.

Contact (Report to): Brian Neumann Phone: 518-785-2354

Address:
13 British American Blvd
Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area/ 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] Y brian.neumann@CBI.com
Fax? [ ] Y No.:

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs 8260C	SVOCs 8270D	PCBs 8082A	Pesticides 8081B	Herbicides 8151A	Reactivity / Ignitability	Total Metals 6010C / 7471B (mercury)	Hexavalent Chromium 7196A	Moisture
	***Container Type						Encore				CG				
	***Container Size						—				8oz				2oz
	*** Preservative						—				None				None
1	CS-LF048-LF049		6-9-16	0850	C	Solid	3				3				1
2	SS-LF001-COMPOSITE		6-9-16	1040	C	SO	3				3				1
3															
4															
5															
6															
7															
8															

Enter Number of Containers Per Analysis

Performed by: SGS INTERNAL USE HERE
Cooler Temp: #1 3
Therm. ID: #352
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
N					
Y	Y	Y	Y	—	

	Custody seals Present?	(If present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
N					
Y	Y	Y	Y	Y	Y

SAMPLED BY (Please Print): Adam Norrelle

Project Comments: *See QAPP 6/10/16 1125

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 CBI	6-9-16	1337	2	6-9-16	1337
3	6-9-16	1700	4	6/10/16	14:25
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other

EDDs Required? [ ] If yes, format type:

DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

Other

SPECIAL INSTRUCTIONS

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite

**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Oil=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

Attachment F

Boring Logs

Northeast Debris Area BORING NUMBER SB-1

CB&I

CLIENT General Electric Company
PROJECT NAME Malta Rocket Fuel Area Superfund Site
PROJECT NUMBER 154035
PROJECT LOCATION 400 Stonebreak Road Extension, Malta, NY
DATE STARTED 9/14/16 **COMPLETED** 9/14/16
GROUND ELEVATION _____ **HOLE SIZE** 3.25 inches
DRILLING CONTRACTOR Zebra/Cascade
GROUND WATER LEVELS:
DRILLING METHOD DPT/Dual Tube
▽ **AT TIME OF DRILLING** 14.00 ft
LOGGED BY Adam Norvelle **CHECKED BY** _____
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE COLLECTED SAMPLE ID	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0	UD SB-1 (0ft-4ft)	SP		(SP) POORLY-GRADED SAND; dark yellowish brown (10YR 3/6); medium dense; moist; 100% fine to medium sand; trace fines; subangular sand	PID = 19
5	UD SB-1 (4ft-8ft)				PID = 20.1
10	SB-1 (8ft-12ft) UD SB-1 (8ft-12ft) MS/MSD				PID = 17.6
15	GB GW-SB-1			▽ Wet with a color change to dark brown (10YR3/3).	PID = 20.5
20				20.0 Bottom of borehole at 20.0 feet.	

GENERAL BH / TP / WELL - GE MRFA - GINT STD US LAB.GDT - 10/4/16 10:25 - P:\GINT\DRILL LOGS\GINT FILES\GE MRFA DRUM EX.GPJ

Northeast Debris Area BORING NUMBER SB-2

CB&I

CLIENT General Electric Company
PROJECT NAME Malta Rocket Fuel Area Superfund Site
PROJECT NUMBER 154035
PROJECT LOCATION 400 Stonebreak Road Extension, Malta, NY
DATE STARTED 9/15/16 **COMPLETED** 9/15/16
GROUND ELEVATION _____ **HOLE SIZE** 3.25 inches
DRILLING CONTRACTOR Zebra/Cascade
GROUND WATER LEVELS:
DRILLING METHOD DPT/Dual Tube
▽ **AT TIME OF DRILLING** 14.00 ft
LOGGED BY Adam Norvelle **CHECKED BY** _____
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE COLLECTED SAMPLE ID	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0	SB-2 (0ft-4ft) UD DUP2-SOIL	SP		(SP) POORLY-GRADED SAND; dark yellowish brown (10YR 3/6); medium dense; moist; 100% fine to medium sand; trace fines; subangular sand	PID = 5.6
5	UD SB-2 (4ft-8ft)			VOC product odor present with a color change to grayish brown (10YR 5/2).	PID = 14
10	UD SB-2 (8ft-12ft)				PID = 75.5
				▽ Wet with a color change to dark brown (10YR3/3).	PID = 67
15	GW-SB-2 GB GW-SB-2 MS/MSD				
20				20.0	

Bottom of borehole at 20.0 feet.

GENERAL BH / TP / WELL - GE MRFA - GINT STD US LAB.GDT - 10/4/16 10:25 - P:\GINT\DRILL LOGS\GINT FILES\GE MRFA DRUM EX.GPJ

Northeast Debris Area BORING NUMBER SB-3

CB&I

CLIENT General Electric Company
PROJECT NAME Malta Rocket Fuel Area Superfund Site
PROJECT NUMBER 154035
PROJECT LOCATION 400 Stonebreak Road Extension, Malta, NY
DATE STARTED 9/15/16 **COMPLETED** 9/15/16
GROUND ELEVATION _____ **HOLE SIZE** 3.25 inches
DRILLING CONTRACTOR Zebra/Cascade
GROUND WATER LEVELS:
DRILLING METHOD DPT/Dual Tube
▽ **AT TIME OF DRILLING** 14.00 ft
LOGGED BY Adam Norvelle **CHECKED BY** _____
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE COLLECTED SAMPLE ID	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0	UD SB-3 (0ft-4ft)	SP		(SP) POORLY-GRADED SAND; dark yellowish brown (10YR 3/6); medium dense; moist; 100% fine to medium sand; trace fines; subangular sand	PID = 23.6
5	UD SB-3 (4ft-8ft)				PID = 15.3
10	UD SB-3 (8ft-12ft)				PID = 17.7
					PID = 20.8
15	GW-SB-3 GB DUP2-WATER			▽ Wet with a color change to dark brown (10YR3/3).	
20				20.0 Bottom of borehole at 20.0 feet.	

GENERAL BH / TP / WELL - GE MRFA - GINT STD US LAB.GDT - 10/4/16 10:25 - P:\GINT\DRILL LOGS\GINT FILES\GE MRFA DRUM EX.GPJ

Attachment G

Soil Boring Lab Results

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

September 23, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2175429**
Purchase Order:	**962015**	Workorder ID:	**CBR021|2016-MALTA NY SITE-WAST**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Friday, September 16, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2175429001	SB-1(0-4ft)	Solid	9/14/2016 10:30	9/16/2016 09:09	Collected by Client
2175429002	SB-1(4-8ft)	Solid	9/14/2016 11:30	9/16/2016 09:09	Collected by Client
2175429003	SB-1(8-12ft)	Solid	9/14/2016 12:00	9/16/2016 09:09	Collected by Client

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429001** Date Collected: 9/14/2016 10:30 Matrix: Solid

Sample ID: **SB-1(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	9.4J	J	ug/kg	11.6	5.3	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Acetonitrile	11.6 U	U	ug/kg	11.6	4.0	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Acrolein	58.1 U	U,1,2	ug/kg	58.1	7.7	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Acrylonitrile	11.6 U	U	ug/kg	11.6	3.1	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Benzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Benzyl Chloride	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Bromobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Bromochloromethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Bromodichloromethane	2.3 U	U	ug/kg	2.3	0.83	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Bromoform	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Bromomethane	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
2-Butanone	11.6 U	U	ug/kg	11.6	3.7	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
tert-Butyl Alcohol	11.6 U	U	ug/kg	11.6	4.1	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
n-Butylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
tert-Butylbenzene	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
sec-Butylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Carbon Disulfide	2.3 U	U	ug/kg	2.3	0.73	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Carbon Tetrachloride	4.7		ug/kg	2.3	0.59	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Chlorobenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Chlorodibromomethane	2.3 U	U	ug/kg	2.3	0.79	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Chloroethane	5.8 U	U	ug/kg	5.8	0.99	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Chloroform	0.75J	J	ug/kg	2.3	0.62	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Chloromethane	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Chloroprene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
3-Chloro-1-propene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
o-Chlorotoluene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
p-Chlorotoluene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Cyclohexane	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,2-Dibromo-3-chloropropane	5.8 U	U	ug/kg	5.8	3.4	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,2-Dibromoethane	2.3 U	U	ug/kg	2.3	0.63	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Dibromomethane	2.3 U	U	ug/kg	2.3	0.84	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,2-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,3-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,4-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Dichlorodifluoromethane	2.3 U	U	ug/kg	2.3	0.78	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,1-Dichloroethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429001** Date Collected: 9/14/2016 10:30 Matrix: Solid

Sample ID: **SB-1(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,1-Dichloroethene	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
cis-1,2-Dichloroethene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
trans-1,2-Dichloroethene	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,3-Dichloropropane	2.3 U	U	ug/kg	2.3	0.97	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
2,2-Dichloropropane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,2-Dichloropropane	2.3 U	U	ug/kg	2.3	0.70	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,1-Dichloropropene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
cis-1,3-Dichloropropene	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
trans-1,3-Dichloropropene	2.3 U	U	ug/kg	2.3	0.67	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,4-Dioxane	87.2 U	U	ug/kg	87.2	20.7	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Ethyl Methacrylate	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Ethyl Acetate	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Ethylbenzene	2.3 U	U	ug/kg	2.3	0.79	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Freon 113	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
2-Hexanone	11.6 U	U	ug/kg	11.6	3.3	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Isobutyl alcohol	58.1 U	U	ug/kg	58.1	9.1	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Isopropylbenzene	2.3 U	U	ug/kg	2.3	0.71	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
p-Isopropyltoluene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Methacrylonitrile	2.3 U	U	ug/kg	2.3	0.63	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Methyl methacrylate	5.8 U	U	ug/kg	5.8	2.7	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Methyl acetate	2.3 U	U	ug/kg	2.3	0.69	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Methyl cyclohexane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Methyl t-Butyl Ether	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
4-Methyl-2-Pentanone(MIBK)	11.6 U	U	ug/kg	11.6	4.4	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Methylene Chloride	2.3 U	U	ug/kg	2.3	0.91	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Naphthalene	0.93J	J	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Propionitrile	11.6 U	U	ug/kg	11.6	4.9	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
n-Propylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Styrene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,1,1,2-Tetrachloroethane	2.3 U	U	ug/kg	2.3	0.74	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,1,2,2-Tetrachloroethane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Tetrachloroethene	2.3 U	U	ug/kg	2.3	0.70	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Toluene	4.3		ug/kg	2.3	0.78	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Total Xylenes	7.0 U	U	ug/kg	7.0	1.6	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,2,4-Trichlorobenzene	5.8 U	U	ug/kg	5.8	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,1,1-Trichloroethane	2.3 U	U	ug/kg	2.3	0.72	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,1,2-Trichloroethane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429001** Date Collected: 9/14/2016 10:30 Matrix: Solid

Sample ID: **SB-1(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Trichlorofluoromethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,2,3-Trichloropropane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,2,4-Trimethylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
1,3,5-Trimethylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Vinyl Acetate	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Vinyl Chloride	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
o-Xylene	2.3 U	U	ug/kg	2.3	0.67	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
mp-Xylene	4.7 U	U	ug/kg	4.7	0.97	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	74.5		%	56 - 124	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
4-Bromofluorobenzene (S)	86.2		%	51 - 128	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Dibromofluoromethane (S)	82.4		%	62 - 123	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
Toluene-d8 (S)	82		%	59 - 131	SW846 8260C	9/16/16 11:24	TMP	9/21/16 16:56	TMP	B
SEMIVOLATILES										
Acenaphthene	50.5 U	U	ug/kg	50.5	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Acenaphthylene	50.5 U	U	ug/kg	50.5	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Acetophenone	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Aniline	202 U	U	ug/kg	202	15.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Anthracene	50.5 U	U	ug/kg	50.5	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Atrazine	101 U	U	ug/kg	101	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Benzaldehyde	202 U	U	ug/kg	202	17.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Benzidine	202 U	U	ug/kg	202	32.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Benzo(a)anthracene	50.5 U	U	ug/kg	50.5	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Benzo(a)pyrene	50.5 U	U	ug/kg	50.5	4.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Benzo(b)fluoranthene	50.5 U	U	ug/kg	50.5	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Benzo(g,h,i)perylene	50.5 U	U	ug/kg	50.5	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Benzoic acid	545 U	U	ug/kg	545	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Benzo(k)fluoranthene	50.5 U	U	ug/kg	50.5	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Benzyl Alcohol	101 U	U	ug/kg	101	18.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Biphenyl	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
4-Bromophenyl-phenylether	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Butylbenzylphthalate	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Caprolactam	202 U	U	ug/kg	202	18.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Carbazole	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
4-Chloro-3-methylphenol	202 U	U	ug/kg	202	10.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
4-Chloroaniline	202 U	U	ug/kg	202	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429001** Date Collected: 9/14/2016 10:30 Matrix: Solid

Sample ID: **SB-1(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
bis(2-Chloroethyl)ether	101 U	U	ug/kg	101	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
bis(2-Chloroisopropyl)ether	101 U	U	ug/kg	101	15.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2-Chloronaphthalene	101 U	U	ug/kg	101	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2-Chlorophenol	202 U	U	ug/kg	202	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
4-Chlorophenyl-phenylether	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Chrysene	50.5 U	U	ug/kg	50.5	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
mp-Cresol	202 U	U	ug/kg	202	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
o-Cresol	202 U	U	ug/kg	202	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Di-n-Butylphthalate	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Di-n-Octylphthalate	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Dibenzo(a,h)anthracene	50.5 U	U	ug/kg	50.5	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Dibenzofuran	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
1,2-Dichlorobenzene	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
1,3-Dichlorobenzene	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
1,4-Dichlorobenzene	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
3,3-Dichlorobenzidine	202 U	U	ug/kg	202	38.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2,4-Dichlorophenol	202 U	U	ug/kg	202	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2,6-Dichlorophenol	202 U	U	ug/kg	202	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Diethylphthalate	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Dimethoate	202 U	U	ug/kg	202	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2,4-Dimethylphenol	202 U	U	ug/kg	202	15.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Dimethylphthalate	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
1,2-Dinitrobenzene	101 U	U	ug/kg	101	19.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
1,4-Dinitrobenzene	101 U	U	ug/kg	101	14.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2,4-Dinitrophenol	202 U	U	ug/kg	202	40.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2,4-Dinitrotoluene	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2,6-Dinitrotoluene	101 U	U	ug/kg	101	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Diphenylamine	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
1,2-Diphenylhydrazine	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
bis(2-Ethylhexyl)phthalate	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Fluoranthene	50.5 U	U	ug/kg	50.5	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Fluorene	50.5 U	U	ug/kg	50.5	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Hexachlorobenzene	101 U	U	ug/kg	101	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Hexachlorobutadiene	101 U	U	ug/kg	101	10.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Hexachlorocyclopentadiene	202 U	U	ug/kg	202	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Hexachloroethane	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Indeno(1,2,3-cd)pyrene	50.5 U	U	ug/kg	50.5	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429001** Date Collected: 9/14/2016 10:30 Matrix: Solid

Sample ID: **SB-1(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	101 U	U	ug/kg	101	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2-Methyl-4,6-dinitrophenol	202 U	U	ug/kg	202	26.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2-Methylnaphthalene	101 U	U	ug/kg	101	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2-Naphthylamine	202 U	U	ug/kg	202	16.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Naphthalene	50.5 U	U	ug/kg	50.5	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2-Nitroaniline	202 U	U	ug/kg	202	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
3-Nitroaniline	202 U	U	ug/kg	202	20.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
4-Nitroaniline	202 U	U	ug/kg	202	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Nitrobenzene	101 U	U	ug/kg	101	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2-Nitrophenol	202 U	U	ug/kg	202	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
4-Nitrophenol	202 U	U	ug/kg	202	14.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
N-Nitrosodi-n-butylamine	101 U	U	ug/kg	101	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
N-Nitrosodiethylamine	101 U	U	ug/kg	101	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
N-Nitrosodimethylamine	101 U	U	ug/kg	101	15.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
N-Nitroso-di-n-propylamine	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
N-Nitrosodiphenylamine	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
N-Nitrosopyrrolidine	101 U	U	ug/kg	101	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Pentachlorobenzene	101 U	U	ug/kg	101	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Pentachlorophenol	202 U	U	ug/kg	202	26.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Phenanthrene	50.5 U	U	ug/kg	50.5	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Phenol	202 U	U	ug/kg	202	10.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Pyrene	50.5 U	U	ug/kg	50.5	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Pyridine	202 U	U	ug/kg	202	18.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Resorcinol	101 U	U	ug/kg	101	14.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
1,2,4,5-Tetrachlorobenzene	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2,3,4,6-Tetrachlorophenol	202 U	U	ug/kg	202	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
1,2,4-Trichlorobenzene	101 U	U	ug/kg	101	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2,4,5-Trichlorophenol	202 U	U	ug/kg	202	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2,4,6-Trichlorophenol	202 U	U	ug/kg	202	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	74		%	19 - 132	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2-Fluorobiphenyl (S)	66.7		%	40 - 110	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
2-Fluorophenol (S)	63.5		%	26 - 116	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Nitrobenzene-d5 (S)	63.3		%	38 - 112	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Phenol-d5 (S)	62.3		%	35 - 111	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D
Terphenyl-d14 (S)	72.4		%	45 - 126	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:28	GEC	D

PCBs

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429001** Date Collected: 9/14/2016 10:30 Matrix: Solid

Sample ID: **SB-1(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	0.034 U	U	mg/kg	0.034	0.0031	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:44	EGO	D
Aroclor-1016	0.034 U	U	mg/kg	0.034	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:44	EGO	D
Aroclor-1221	0.034 U	U	mg/kg	0.034	0.0031	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:44	EGO	D
Aroclor-1232	0.034 U	U	mg/kg	0.034	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:44	EGO	D
Aroclor-1242	0.034 U	U	mg/kg	0.034	0.0094	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:44	EGO	D
Aroclor-1248	0.034 U	U	mg/kg	0.034	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:44	EGO	D
Aroclor-1254	0.034 U	U	mg/kg	0.034	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:44	EGO	D
Aroclor-1260	0.034 U	U	mg/kg	0.034	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:44	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	75.3		%	49 - 115		SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:44	EGO	D
Tetrachloro-m-xylene (S)	87		%	27 - 137		SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:44	EGO	D
PESTICIDES											
Aldrin	1.8 U	U	ug/kg	1.8	0.57	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
alpha-BHC	1.8 U	U	ug/kg	1.8	0.16	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
beta-BHC	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
delta-BHC	1.8 U	U	ug/kg	1.8	0.14	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
gamma-BHC	1.8 U	U	ug/kg	1.8	0.15	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
alpha-Chlordane	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
gamma-Chlordane	1.8 U	U	ug/kg	1.8	0.30	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
4,4'-DDD	3.4 U	U	ug/kg	3.4	0.28	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
4,4'-DDE	3.4 U	U	ug/kg	3.4	0.47	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
4,4'-DDT	1.0J	J	ug/kg	3.4	0.40	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Dieldrin	3.4 U	U	ug/kg	3.4	0.40	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Endosulfan I	1.8 U	U	ug/kg	1.8	0.22	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Endosulfan II	3.4 U	U	ug/kg	3.4	0.72	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Endosulfan Sulfate	3.4 U	U	ug/kg	3.4	0.23	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Endrin	3.4 U	U	ug/kg	3.4	0.25	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Endrin Aldehyde	3.4 U	U	ug/kg	3.4	0.38	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Endrin Ketone	3.4 U	U	ug/kg	3.4	0.48	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Heptachlor	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Heptachlor Epoxide	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Methoxychlor	0.84J	J	ug/kg	3.4	0.46	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Mirex	3.4 U	U	ug/kg	3.4	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Toxaphene	36.5 U	U	ug/kg	36.5	6.0	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	62.8		%	30 - 135		SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429001** Date Collected: 9/14/2016 10:30 Matrix: Solid

Sample ID: **SB-1(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	55.7		%	30 - 111		SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:26	RWS	D
HERBICIDES											
2,4-D	71.2 U	U	ug/kg	71.2	27.6	SW846 8151A	9/19/16 01:55	VLM	9/19/16 18:50	KJH	D
2,4-DB	71.2 U	U	ug/kg	71.2	38.3	SW846 8151A	9/19/16 01:55	VLM	9/19/16 18:50	KJH	D
Dalapon	71.2 U	U	ug/kg	71.2	18.1	SW846 8151A	9/19/16 01:55	VLM	9/19/16 18:50	KJH	D
Dicamba	71.2 U	U	ug/kg	71.2	25.5	SW846 8151A	9/19/16 01:55	VLM	9/19/16 18:50	KJH	D
Dichloroprop	71.2 U	U	ug/kg	71.2	28.7	SW846 8151A	9/19/16 01:55	VLM	9/19/16 18:50	KJH	D
Dinoseb	177 U	U	ug/kg	177	36.1	SW846 8151A	9/19/16 01:55	VLM	9/19/16 18:50	KJH	D
4-Nitrophenol	71.2 U	U	ug/kg	71.2	24.4	SW846 8151A	9/19/16 01:55	VLM	9/19/16 18:50	KJH	D
2,4,5-T	71.2 U	U	ug/kg	71.2	29.8	SW846 8151A	9/19/16 01:55	VLM	9/19/16 18:50	KJH	D
2,4,5-TP	71.2 U	U	ug/kg	71.2	32.9	SW846 8151A	9/19/16 01:55	VLM	9/19/16 18:50	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	65.5		%	36 - 113		SW846 8151A	9/19/16 01:55	VLM	9/19/16 18:50	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10.0 U	U	ppm	10.0	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	D
Hexavalent Chromium	2.1 U	U,3	mg/kg	2.1	0.41	SW846 7196A	9/17/16 11:00	AHI	9/17/16 15:30	AHI	D
Ignitability	Not Ignitable	4				SW846 1030			9/23/16 09:30	AXC	D
Moisture	7.1		%	0.1	0.01	S2540G-11			9/20/16 14:41	VKB	
Sulfide, Reactive	6.0J	J	ppm	6.3	1.3	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	D
Total Solids	92.9		%	0.1	0.01	S2540G-11			9/20/16 14:41	VKB	
METALS											
Aluminum, Total	8830		mg/kg	9.8	3.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Antimony, Total	2.0 U	U	mg/kg	2.0	0.65	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Arsenic, Total	1.5J	J	mg/kg	2.0	0.65	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Barium, Total	24.0		mg/kg	0.98	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Beryllium, Total	0.98 U	U	mg/kg	0.98	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Cadmium, Total	0.49 U	U	mg/kg	0.49	0.16	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Calcium, Total	464		mg/kg	9.8	3.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Chromium, Total	8.7		mg/kg	0.98	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Cobalt, Total	3.4		mg/kg	0.98	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Copper, Total	7.8		mg/kg	2.0	0.65	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Iron, Total	11900		mg/kg	9.8	3.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Lead, Total	3.6		mg/kg	2.0	0.65	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Magnesium, Total	1550		mg/kg	9.8	3.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Manganese, Total	256		mg/kg	0.98	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429001** Date Collected: 9/14/2016 10:30 Matrix: Solid

Sample ID: **SB-1(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Mercury, Total	0.054 U	U	mg/kg	0.054	0.017	SW846 7471B	9/20/16 12:30	MNP	9/20/16 14:12	MNP	D2
Nickel, Total	9.0		mg/kg	2.0	0.65	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Potassium, Total	1150		mg/kg	48.9	16.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Selenium, Total	4.9 U	U	mg/kg	4.9	1.6	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Silver, Total	0.49 U	U	mg/kg	0.49	0.16	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Sodium, Total	31.7J	J	mg/kg	48.9	16.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Thallium, Total	2.9 U	U	mg/kg	2.9	0.98	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Vanadium, Total	19.1		mg/kg	0.98	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1
Zinc, Total	24.9		mg/kg	2.0	0.65	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:27	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429002** Date Collected: 9/14/2016 11:30 Matrix: Solid

Sample ID: **SB-1(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	39.1		ug/kg	12.5	5.7	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Acetonitrile	6.4J	J	ug/kg	12.5	4.2	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Acrolein	62.5 U	U,1,2	ug/kg	62.5	8.2	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Acrylonitrile	12.5 U	U	ug/kg	12.5	3.4	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Benzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Benzyl Chloride	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Bromobenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Bromochloromethane	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Bromodichloromethane	2.5 U	U	ug/kg	2.5	0.89	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Bromoform	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Bromomethane	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
2-Butanone	12.5 U	U	ug/kg	12.5	4.0	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
tert-Butyl Alcohol	12.5 U	U	ug/kg	12.5	4.4	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
n-Butylbenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
tert-Butylbenzene	2.5 U	U	ug/kg	2.5	0.69	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
sec-Butylbenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Carbon Disulfide	2.5 U	U	ug/kg	2.5	0.79	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Carbon Tetrachloride	1.4J	J	ug/kg	2.5	0.64	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Chlorobenzene	2.5 U	U	ug/kg	2.5	0.64	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Chlorodibromomethane	2.5 U	U	ug/kg	2.5	0.85	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Chloroethane	6.2 U	U	ug/kg	6.2	1.1	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Chloroform	0.89J	J	ug/kg	2.5	0.66	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Chloromethane	2.5 U	U	ug/kg	2.5	0.69	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Chloroprene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
3-Chloro-1-propene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
o-Chlorotoluene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
p-Chlorotoluene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Cyclohexane	2.5 U	U	ug/kg	2.5	0.64	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,2-Dibromo-3-chloropropane	6.2 U	U	ug/kg	6.2	3.6	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,2-Dibromoethane	2.5 U	U	ug/kg	2.5	0.67	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Dibromomethane	2.5 U	U	ug/kg	2.5	0.90	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,2-Dichlorobenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,3-Dichlorobenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,4-Dichlorobenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Dichlorodifluoromethane	2.5 U	U	ug/kg	2.5	0.84	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,1-Dichloroethane	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429002** Date Collected: 9/14/2016 11:30 Matrix: Solid

Sample ID: **SB-1(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	2.0J	J	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,1-Dichloroethene	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
cis-1,2-Dichloroethene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
trans-1,2-Dichloroethene	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,3-Dichloropropane	2.5 U	U	ug/kg	2.5	1.0	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
2,2-Dichloropropane	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,2-Dichloropropane	2.5 U	U	ug/kg	2.5	0.75	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,1-Dichloropropene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
cis-1,3-Dichloropropene	2.5 U	U	ug/kg	2.5	0.69	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
trans-1,3-Dichloropropene	2.5 U	U	ug/kg	2.5	0.72	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,4-Dioxane	93.7 U	U	ug/kg	93.7	22.2	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Ethyl Methacrylate	2.5 U	U	ug/kg	2.5	0.64	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Ethyl Acetate	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Ethylbenzene	2.5 U	U	ug/kg	2.5	0.85	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Freon 113	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
2-Hexanone	12.5 U	U	ug/kg	12.5	3.5	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Isobutyl alcohol	62.5 U	U	ug/kg	62.5	9.7	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Isopropylbenzene	2.5 U	U	ug/kg	2.5	0.76	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
p-Isopropyltoluene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Methacrylonitrile	2.5 U	U	ug/kg	2.5	0.67	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Methyl methacrylate	6.2 U	U	ug/kg	6.2	2.9	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Methyl acetate	2.5 U	U	ug/kg	2.5	0.74	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Methyl cyclohexane	2.5 U	U	ug/kg	2.5	0.70	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Methyl t-Butyl Ether	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
4-Methyl-2-Pentanone(MIBK)	12.5 U	U	ug/kg	12.5	4.7	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Methylene Chloride	2.5 U	U	ug/kg	2.5	0.97	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Naphthalene	0.65J	J	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Propionitrile	12.5 U	U	ug/kg	12.5	5.2	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
n-Propylbenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Styrene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,1,1,2-Tetrachloroethane	2.5 U	U	ug/kg	2.5	0.80	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,1,2,2-Tetrachloroethane	2.5 U	U	ug/kg	2.5	0.70	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Tetrachloroethene	2.5 U	U	ug/kg	2.5	0.75	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Toluene	2.0J	J	ug/kg	2.5	0.84	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Total Xylenes	7.5 U	U	ug/kg	7.5	1.7	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,2,4-Trichlorobenzene	6.2 U	U	ug/kg	6.2	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,1,1-Trichloroethane	2.5 U	U	ug/kg	2.5	0.77	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,1,2-Trichloroethane	2.5 U	U	ug/kg	2.5	0.70	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429002** Date Collected: 9/14/2016 11:30 Matrix: Solid

Sample ID: **SB-1(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Trichlorofluoromethane	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,2,3-Trichloropropane	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,2,4-Trimethylbenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
1,3,5-Trimethylbenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Vinyl Acetate	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Vinyl Chloride	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
o-Xylene	2.5 U	U	ug/kg	2.5	0.72	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
mp-Xylene	5.0 U	U	ug/kg	5.0	1.0	SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	71.7		%	56 - 124		SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
4-Bromofluorobenzene (S)	84		%	51 - 128		SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Dibromofluoromethane (S)	79.9		%	62 - 123		SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
Toluene-d8 (S)	83.9		%	59 - 131		SW846 8260C	9/16/16 11:21	TMP	9/21/16 17:19	TMP	B
SEMIVOLATILES											
Acenaphthene	53.8 U	U	ug/kg	53.8	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Acenaphthylene	53.8 U	U	ug/kg	53.8	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Acetophenone	108 U	U	ug/kg	108	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Aniline	215 U	U	ug/kg	215	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Anthracene	53.8 U	U	ug/kg	53.8	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Atrazine	108 U	U	ug/kg	108	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Benzaldehyde	215 U	U	ug/kg	215	18.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Benzidine	215 U	U	ug/kg	215	34.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Benzo(a)anthracene	53.8 U	U	ug/kg	53.8	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Benzo(a)pyrene	53.8 U	U	ug/kg	53.8	4.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Benzo(b)fluoranthene	53.8 U	U	ug/kg	53.8	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Benzo(g,h,i)perylene	53.8 U	U	ug/kg	53.8	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Benzoic acid	581 U	U	ug/kg	581	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Benzo(k)fluoranthene	53.8 U	U	ug/kg	53.8	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Benzyl Alcohol	108 U	U	ug/kg	108	19.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Biphenyl	108 U	U	ug/kg	108	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
4-Bromophenyl-phenylether	108 U	U	ug/kg	108	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Butylbenzylphthalate	108 U	U	ug/kg	108	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Caprolactam	215 U	U	ug/kg	215	19.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Carbazole	108 U	U	ug/kg	108	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
4-Chloro-3-methylphenol	215 U	U	ug/kg	215	10.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
4-Chloroaniline	215 U	U	ug/kg	215	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429002** Date Collected: 9/14/2016 11:30 Matrix: Solid

Sample ID: **SB-1(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	108 U	U	ug/kg	108	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
bis(2-Chloroethyl)ether	108 U	U	ug/kg	108	14.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
bis(2-Chloroisopropyl)ether	108 U	U	ug/kg	108	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2-Chloronaphthalene	108 U	U	ug/kg	108	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2-Chlorophenol	215 U	U	ug/kg	215	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
4-Chlorophenyl-phenylether	108 U	U	ug/kg	108	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Chrysene	53.8 U	U	ug/kg	53.8	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
mp-Cresol	215 U	U	ug/kg	215	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
o-Cresol	215 U	U	ug/kg	215	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Di-n-Butylphthalate	108 U	U	ug/kg	108	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Di-n-Octylphthalate	108 U	U	ug/kg	108	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Dibenzo(a,h)anthracene	53.8 U	U	ug/kg	53.8	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Dibenzofuran	108 U	U	ug/kg	108	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
1,2-Dichlorobenzene	108 U	U	ug/kg	108	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
1,3-Dichlorobenzene	108 U	U	ug/kg	108	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
1,4-Dichlorobenzene	108 U	U	ug/kg	108	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
3,3-Dichlorobenzidine	215 U	U	ug/kg	215	40.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2,4-Dichlorophenol	215 U	U	ug/kg	215	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2,6-Dichlorophenol	215 U	U	ug/kg	215	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Diethylphthalate	108 U	U	ug/kg	108	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Dimethoate	215 U	U	ug/kg	215	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2,4-Dimethylphenol	215 U	U	ug/kg	215	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Dimethylphthalate	108 U	U	ug/kg	108	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
1,2-Dinitrobenzene	108 U	U	ug/kg	108	20.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
1,4-Dinitrobenzene	108 U	U	ug/kg	108	15.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2,4-Dinitrophenol	215 U	U	ug/kg	215	43.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2,4-Dinitrotoluene	108 U	U	ug/kg	108	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2,6-Dinitrotoluene	108 U	U	ug/kg	108	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Diphenylamine	108 U	U	ug/kg	108	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
1,2-Diphenylhydrazine	108 U	U	ug/kg	108	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
bis(2-Ethylhexyl)phthalate	108 U	U	ug/kg	108	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Fluoranthene	53.8 U	U	ug/kg	53.8	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Fluorene	53.8 U	U	ug/kg	53.8	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Hexachlorobenzene	108 U	U	ug/kg	108	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Hexachlorobutadiene	108 U	U	ug/kg	108	10.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Hexachlorocyclopentadiene	215 U	U	ug/kg	215	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Hexachloroethane	108 U	U	ug/kg	108	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Indeno(1,2,3-cd)pyrene	53.8 U	U	ug/kg	53.8	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429002** Date Collected: 9/14/2016 11:30 Matrix: Solid

Sample ID: **SB-1(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	108 U	U	ug/kg	108	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2-Methyl-4,6-dinitrophenol	215 U	U	ug/kg	215	28.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2-Methylnaphthalene	108 U	U	ug/kg	108	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2-Naphthylamine	215 U	U	ug/kg	215	17.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Naphthalene	53.8 U	U	ug/kg	53.8	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2-Nitroaniline	215 U	U	ug/kg	215	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
3-Nitroaniline	215 U	U	ug/kg	215	21.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
4-Nitroaniline	215 U	U	ug/kg	215	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Nitrobenzene	108 U	U	ug/kg	108	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2-Nitrophenol	215 U	U	ug/kg	215	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
4-Nitrophenol	215 U	U	ug/kg	215	15.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
N-Nitrosodi-n-butylamine	108 U	U	ug/kg	108	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
N-Nitrosodiethylamine	108 U	U	ug/kg	108	14.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
N-Nitrosodimethylamine	108 U	U	ug/kg	108	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
N-Nitroso-di-n-propylamine	108 U	U	ug/kg	108	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
N-Nitrosodiphenylamine	108 U	U	ug/kg	108	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
N-Nitrosopyrrolidine	108 U	U	ug/kg	108	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Pentachlorobenzene	108 U	U	ug/kg	108	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Pentachlorophenol	215 U	U	ug/kg	215	28.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Phenanthrene	53.8 U	U	ug/kg	53.8	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Phenol	215 U	U	ug/kg	215	10.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Pyrene	53.8 U	U	ug/kg	53.8	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Pyridine	215 U	U	ug/kg	215	19.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Resorcinol	108 U	U	ug/kg	108	15.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
1,2,4,5-Tetrachlorobenzene	108 U	U	ug/kg	108	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2,3,4,6-Tetrachlorophenol	215 U	U	ug/kg	215	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
1,2,4-Trichlorobenzene	108 U	U	ug/kg	108	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2,4,5-Trichlorophenol	215 U	U	ug/kg	215	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2,4,6-Trichlorophenol	215 U	U	ug/kg	215	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	86		%	19 - 132	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2-Fluorobiphenyl (S)	82.8		%	40 - 110	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
2-Fluorophenol (S)	76.4		%	26 - 116	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Nitrobenzene-d5 (S)	75.7		%	38 - 112	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Phenol-d5 (S)	77.2		%	35 - 111	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D
Terphenyl-d14 (S)	86		%	45 - 126	SW846 8270D	9/19/16 10:10	JTH	9/19/16 18:54	GEC	D

PCBs

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429002** Date Collected: 9/14/2016 11:30 Matrix: Solid

Sample ID: **SB-1(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	0.036 U	U	mg/kg	0.036	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:55	EGO	D
Aroclor-1016	0.036 U	U	mg/kg	0.036	0.0065	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:55	EGO	D
Aroclor-1221	0.036 U	U	mg/kg	0.036	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:55	EGO	D
Aroclor-1232	0.036 U	U	mg/kg	0.036	0.0065	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:55	EGO	D
Aroclor-1242	0.036 U	U	mg/kg	0.036	0.0097	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:55	EGO	D
Aroclor-1248	0.036 U	U	mg/kg	0.036	0.0065	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:55	EGO	D
Aroclor-1254	0.036 U	U	mg/kg	0.036	0.0065	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:55	EGO	D
Aroclor-1260	0.036 U	U	mg/kg	0.036	0.0065	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:55	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	85.8		%	49 - 115		SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:55	EGO	D
Tetrachloro-m-xylene (S)	94		%	27 - 137		SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:55	EGO	D
PESTICIDES											
Aldrin	1.8 U	U	ug/kg	1.8	0.60	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
alpha-BHC	1.8 U	U	ug/kg	1.8	0.16	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
beta-BHC	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
delta-BHC	1.8 U	U	ug/kg	1.8	0.14	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
gamma-BHC	1.8 U	U	ug/kg	1.8	0.15	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
alpha-Chlordane	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
gamma-Chlordane	1.8 U	U	ug/kg	1.8	0.31	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
4,4'-DDD	3.6 U	U	ug/kg	3.6	0.29	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
4,4'-DDE	3.6 U	U	ug/kg	3.6	0.49	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
4,4'-DDT	3.6 U	U	ug/kg	3.6	0.41	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Dieldrin	3.6 U	U	ug/kg	3.6	0.41	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Endosulfan I	1.8 U	U	ug/kg	1.8	0.23	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Endosulfan II	3.6 U	U	ug/kg	3.6	0.75	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Endosulfan Sulfate	3.6 U	U	ug/kg	3.6	0.24	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Endrin	3.6 U	U	ug/kg	3.6	0.26	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Endrin Aldehyde	3.6 U	U	ug/kg	3.6	0.39	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Endrin Ketone	3.6 U	U	ug/kg	3.6	0.50	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Heptachlor	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Heptachlor Epoxide	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Methoxychlor	3.6 U	U	ug/kg	3.6	0.48	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Mirex	3.6 U	U	ug/kg	3.6	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Toxaphene	37.9 U	U	ug/kg	37.9	6.3	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	64.4		%	30 - 135		SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429002** Date Collected: 9/14/2016 11:30 Matrix: Solid

Sample ID: **SB-1(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	58.9		%	30 - 111		SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:42	RWS	D
HERBICIDES											
2,4-D	72.1 U	U	ug/kg	72.1	28.0	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:04	KJH	D
2,4-DB	72.1 U	U	ug/kg	72.1	38.7	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:04	KJH	D
Dalapon	72.1 U	U	ug/kg	72.1	18.3	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:04	KJH	D
Dicamba	72.1 U	U	ug/kg	72.1	25.8	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:04	KJH	D
Dichloroprop	72.1 U	U	ug/kg	72.1	29.0	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:04	KJH	D
Dinoseb	180 U	U	ug/kg	180	36.6	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:04	KJH	D
4-Nitrophenol	72.1 U	U	ug/kg	72.1	24.7	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:04	KJH	D
2,4,5-T	72.1 U	U	ug/kg	72.1	30.1	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:04	KJH	D
2,4,5-TP	72.1 U	U	ug/kg	72.1	33.3	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:04	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	71.7		%	36 - 113		SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:04	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	D
Hexavalent Chromium	2.1 U	U	mg/kg	2.1	0.41	SW846 7196A	9/17/16 11:00	AHI	9/17/16 15:30	AHI	D
Ignitability	Not Ignitable	3				SW846 1030			9/23/16 09:30	AXC	D
Moisture	8.2		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
Sulfide, Reactive	6.0J	J	ppm	6.2	1.2	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	D
Total Solids	91.8		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
METALS											
Aluminum, Total	5250		mg/kg	9.2	3.1	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Antimony, Total	1.8 U	U	mg/kg	1.8	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Arsenic, Total	0.85J	J	mg/kg	1.8	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Barium, Total	13.8		mg/kg	0.92	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Beryllium, Total	0.92 U	U	mg/kg	0.92	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Cadmium, Total	0.46 U	U	mg/kg	0.46	0.15	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Calcium, Total	543		mg/kg	9.2	3.1	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Chromium, Total	5.6		mg/kg	0.92	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Cobalt, Total	3.2		mg/kg	0.92	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Copper, Total	6.5		mg/kg	1.8	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Iron, Total	10000		mg/kg	9.2	3.1	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Lead, Total	2.6		mg/kg	1.8	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Magnesium, Total	1430		mg/kg	9.2	3.1	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Manganese, Total	285		mg/kg	0.92	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429002** Date Collected: 9/14/2016 11:30 Matrix: Solid

Sample ID: **SB-1(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Mercury, Total	0.048 U	U	mg/kg	0.048	0.015	SW846 7471B	9/20/16 12:30	MNP	9/20/16 14:15	MNP	D2
Nickel, Total	7.6		mg/kg	1.8	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Potassium, Total	865		mg/kg	46.2	15.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Selenium, Total	4.6 U	U	mg/kg	4.6	1.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Silver, Total	0.46 U	U	mg/kg	0.46	0.15	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Sodium, Total	36.5J	J	mg/kg	46.2	15.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Thallium, Total	2.8 U	U	mg/kg	2.8	0.92	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Vanadium, Total	13.3		mg/kg	0.92	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1
Zinc, Total	22.0		mg/kg	1.8	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:38	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429003** Date Collected: 9/14/2016 12:00 Matrix: Solid

Sample ID: **SB-1(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	18.5		ug/kg	12.7	5.8	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Acetonitrile	12.7 U	U	ug/kg	12.7	4.3	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Acrolein	63.5 U	U,1,2	ug/kg	63.5	8.4	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Acrylonitrile	12.7 U	U	ug/kg	12.7	3.4	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Benzene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Benzyl Chloride	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Bromobenzene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Bromochloromethane	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Bromodichloromethane	2.5 U	U	ug/kg	2.5	0.90	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Bromoform	2.5 U	U	ug/kg	2.5	0.66	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Bromomethane	2.5 U	U	ug/kg	2.5	0.66	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
2-Butanone	12.7 U	U	ug/kg	12.7	4.1	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
tert-Butyl Alcohol	12.7 U	U	ug/kg	12.7	4.4	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
n-Butylbenzene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
tert-Butylbenzene	2.5 U	U	ug/kg	2.5	0.70	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
sec-Butylbenzene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Carbon Disulfide	2.5 U	U	ug/kg	2.5	0.80	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Carbon Tetrachloride	1.2J	J	ug/kg	2.5	0.65	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Chlorobenzene	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Chlorodibromomethane	2.5 U	U	ug/kg	2.5	0.86	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Chloroethane	6.3 U	U	ug/kg	6.3	1.1	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Chloroform	0.71J	J	ug/kg	2.5	0.67	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Chloromethane	2.5 U	U	ug/kg	2.5	0.70	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Chloroprene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
3-Chloro-1-propene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
o-Chlorotoluene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
p-Chlorotoluene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Cyclohexane	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,2-Dibromo-3-chloropropane	6.3 U	U	ug/kg	6.3	3.7	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,2-Dibromoethane	2.5 U	U	ug/kg	2.5	0.69	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Dibromomethane	2.5 U	U	ug/kg	2.5	0.91	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,2-Dichlorobenzene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,3-Dichlorobenzene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,4-Dichlorobenzene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Dichlorodifluoromethane	2.5 U	U	ug/kg	2.5	0.85	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,1-Dichloroethane	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429003** Date Collected: 9/14/2016 12:00 Matrix: Solid

Sample ID: **SB-1(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	1.9J	J	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,1-Dichloroethene	2.5 U	U	ug/kg	2.5	0.66	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
cis-1,2-Dichloroethene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
trans-1,2-Dichloroethene	2.5 U	U	ug/kg	2.5	0.66	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,3-Dichloropropane	2.5 U	U	ug/kg	2.5	1.1	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
2,2-Dichloropropane	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,2-Dichloropropane	2.5 U	U	ug/kg	2.5	0.76	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,1-Dichloropropene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
cis-1,3-Dichloropropene	2.5 U	U	ug/kg	2.5	0.70	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
trans-1,3-Dichloropropene	2.5 U	U	ug/kg	2.5	0.74	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,4-Dioxane	95.2 U	U	ug/kg	95.2	22.6	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Ethyl Methacrylate	2.5 U	U,10,11	ug/kg	2.5	0.65	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Ethyl Acetate	2.5 U	U,9	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Ethylbenzene	2.5 U	U	ug/kg	2.5	0.86	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Freon 113	2.5 U	U,5,6	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
2-Hexanone	12.7 U	U	ug/kg	12.7	3.6	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Isobutyl alcohol	63.5 U	U	ug/kg	63.5	9.9	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Isopropylbenzene	2.5 U	U	ug/kg	2.5	0.77	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
p-Isopropyltoluene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Methacrylonitrile	2.5 U	U	ug/kg	2.5	0.69	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Methyl methacrylate	6.3 U	U	ug/kg	6.3	2.9	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Methyl acetate	2.5 U	U,3,4	ug/kg	2.5	0.75	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Methyl cyclohexane	2.5 U	U	ug/kg	2.5	0.71	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Methyl t-Butyl Ether	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
4-Methyl-2-Pentanone(MIBK)	12.7 U	U	ug/kg	12.7	4.8	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Methylene Chloride	2.5 U	U	ug/kg	2.5	0.99	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Naphthalene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Propionitrile	12.7 U	U	ug/kg	12.7	5.3	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
n-Propylbenzene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Styrene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,1,1,2-Tetrachloroethane	2.5 U	U	ug/kg	2.5	0.81	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,1,2,2-Tetrachloroethane	2.5 U	U	ug/kg	2.5	0.71	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Tetrachloroethene	2.5 U	U	ug/kg	2.5	0.76	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Toluene	3.0		ug/kg	2.5	0.85	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Total Xylenes	7.6 U	U	ug/kg	7.6	1.8	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,2,4-Trichlorobenzene	6.3 U	U	ug/kg	6.3	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429003** Date Collected: 9/14/2016 12:00 Matrix: Solid

Sample ID: **SB-1(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	2.5 U	U	ug/kg	2.5	0.79	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,1,2-Trichloroethane	2.5 U	U	ug/kg	2.5	0.71	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Trichloroethene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Trichlorofluoromethane	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,2,3-Trichloropropane	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,2,4-Trimethylbenzene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
1,3,5-Trimethylbenzene	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Vinyl Acetate	2.5 U	U,7,8	ug/kg	2.5	0.66	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Vinyl Chloride	2.5 U	U	ug/kg	2.5	0.63	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
o-Xylene	2.5 U	U	ug/kg	2.5	0.74	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
mp-Xylene	5.1 U	U	ug/kg	5.1	1.1	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	76.6		%	56 - 124	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
4-Bromofluorobenzene (S)	84.3		%	51 - 128	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Dibromofluoromethane (S)	81.8		%	62 - 123	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
Toluene-d8 (S)	81.2		%	59 - 131	SW846 8260C	9/16/16 11:30	TMP	9/21/16 17:42	TMP	B
SEMIVOLATILES										
Acenaphthene	51.1 U	U	ug/kg	51.1	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Acenaphthylene	51.1 U	U	ug/kg	51.1	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Acetophenone	102 U	U	ug/kg	102	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Aniline	204 U	U	ug/kg	204	15.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Anthracene	51.1 U	U	ug/kg	51.1	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Atrazine	102 U	U	ug/kg	102	11.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Benzaldehyde	204 U	U	ug/kg	204	17.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Benzidine	204 U	U,195,196	ug/kg	204	32.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Benzo(a)anthracene	51.1 U	U	ug/kg	51.1	5.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Benzo(a)pyrene	51.1 U	U	ug/kg	51.1	4.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Benzo(b)fluoranthene	51.1 U	U	ug/kg	51.1	5.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Benzo(g,h,i)perylene	51.1 U	U	ug/kg	51.1	5.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Benzoic acid	551 U	U	ug/kg	551	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Benzo(k)fluoranthene	51.1 U	U	ug/kg	51.1	5.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Benzyl Alcohol	102 U	U	ug/kg	102	18.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Biphenyl	102 U	U	ug/kg	102	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
4-Bromophenyl-phenylether	102 U	U	ug/kg	102	9.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Butylbenzylphthalate	102 U	U	ug/kg	102	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429003** Date Collected: 9/14/2016 12:00 Matrix: Solid

Sample ID: **SB-1(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Caprolactam	204 U	U	ug/kg	204	18.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Carbazole	102 U	U	ug/kg	102	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
4-Chloro-3-methylphenol	204 U	U	ug/kg	204	10.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
4-Chloroaniline	204 U	U	ug/kg	204	12.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
bis(2-Chloroethoxy)methane	102 U	U	ug/kg	102	9.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
bis(2-Chloroethyl)ether	102 U	U	ug/kg	102	13.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
bis(2-Chloroisopropyl)ether	102 U	U	ug/kg	102	15.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2-Chloronaphthalene	102 U	U	ug/kg	102	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2-Chlorophenol	204 U	U	ug/kg	204	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
4-Chlorophenyl-phenylether	102 U	U	ug/kg	102	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Chrysene	51.1 U	U	ug/kg	51.1	5.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
mp-Cresol	204 U	U	ug/kg	204	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
o-Cresol	204 U	U	ug/kg	204	11.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Di-n-Butylphthalate	102 U	U	ug/kg	102	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Di-n-Octylphthalate	102 U	U	ug/kg	102	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Dibenzo(a,h)anthracene	51.1 U	U	ug/kg	51.1	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Dibenzofuran	102 U	U	ug/kg	102	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
1,2-Dichlorobenzene	102 U	U	ug/kg	102	9.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
1,3-Dichlorobenzene	102 U	U	ug/kg	102	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
1,4-Dichlorobenzene	102 U	U	ug/kg	102	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
3,3-Dichlorobenzidine	204 U	U	ug/kg	204	38.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2,4-Dichlorophenol	204 U	U	ug/kg	204	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2,6-Dichlorophenol	204 U	U	ug/kg	204	11.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Diethylphthalate	102 U	U	ug/kg	102	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Dimethoate	204 U	U	ug/kg	204	11.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2,4-Dimethylphenol	204 U	U	ug/kg	204	15.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Dimethylphthalate	102 U	U	ug/kg	102	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
1,2-Dinitrobenzene	102 U	U	ug/kg	102	19.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
1,4-Dinitrobenzene	102 U	U	ug/kg	102	14.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2,4-Dinitrophenol	204 U	U	ug/kg	204	40.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2,4-Dinitrotoluene	102 U	U	ug/kg	102	9.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2,6-Dinitrotoluene	102 U	U	ug/kg	102	12.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Diphenylamine	102 U	U	ug/kg	102	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
1,2-Diphenylhydrazine	102 U	U	ug/kg	102	9.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
bis(2-Ethylhexyl)phthalate	102 U	U	ug/kg	102	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Fluoranthene	51.1 U	U	ug/kg	51.1	5.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Fluorene	51.1 U	U	ug/kg	51.1	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Hexachlorobenzene	102 U	U	ug/kg	102	11.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429003** Date Collected: 9/14/2016 12:00 Matrix: Solid

Sample ID: **SB-1(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	102 U	U	ug/kg	102	10.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Hexachlorocyclopentadiene	204 U	U,193	ug/kg	204	11.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Hexachloroethane	102 U	U	ug/kg	102	9.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Indeno(1,2,3-cd)pyrene	51.1 U	U	ug/kg	51.1	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Isophorone	102 U	U	ug/kg	102	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2-Methyl-4,6-dinitrophenol	204 U	U,194	ug/kg	204	26.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2-Methylnaphthalene	102 U	U	ug/kg	102	5.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2-Naphthylamine	204 U	U	ug/kg	204	16.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Naphthalene	51.1 U	U	ug/kg	51.1	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2-Nitroaniline	204 U	U	ug/kg	204	12.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
3-Nitroaniline	204 U	U	ug/kg	204	20.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
4-Nitroaniline	204 U	U	ug/kg	204	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Nitrobenzene	102 U	U	ug/kg	102	12.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2-Nitrophenol	204 U	U	ug/kg	204	11.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
4-Nitrophenol	204 U	U	ug/kg	204	14.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
N-Nitrosodi-n-butylamine	102 U	U	ug/kg	102	11.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
N-Nitrosodiethylamine	102 U	U	ug/kg	102	13.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
N-Nitrosodimethylamine	102 U	U	ug/kg	102	15.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
N-Nitroso-di-n-propylamine	102 U	U	ug/kg	102	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
N-Nitrosodiphenylamine	102 U	U	ug/kg	102	8.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
N-Nitrosopyrrolidine	102 U	U	ug/kg	102	12.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Pentachlorobenzene	102 U	U	ug/kg	102	11.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Pentachlorophenol	204 U	U	ug/kg	204	26.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Phenanthrene	51.1 U	U	ug/kg	51.1	5.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Phenol	204 U	U	ug/kg	204	10.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Pyrene	51.1 U	U	ug/kg	51.1	5.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Pyridine	204 U	U	ug/kg	204	18.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Resorcinol	102 U	U	ug/kg	102	14.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
1,2,4,5-Tetrachlorobenzene	102 U	U	ug/kg	102	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2,3,4,6-Tetrachlorophenol	204 U	U	ug/kg	204	12.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
1,2,4-Trichlorobenzene	102 U	U	ug/kg	102	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2,4,5-Trichlorophenol	204 U	U	ug/kg	204	12.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2,4,6-Trichlorophenol	204 U	U	ug/kg	204	12.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	93		%	19 - 132	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
2-Fluorobiphenyl (S)	86.9		%	40 - 110	SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429003** Date Collected: 9/14/2016 12:00 Matrix: Solid

Sample ID: **SB-1(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
2-Fluorophenol (S)	84.9		%	26 - 116		SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Nitrobenzene-d5 (S)	85.2		%	38 - 112		SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Phenol-d5 (S)	83.8		%	35 - 111		SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
Terphenyl-d14 (S)	93.8		%	45 - 126		SW846 8270D	9/19/16 10:10	JTH	9/19/16 19:19	GEC	J
PCBs											
Total Polychlorinated Biphenyl	0.033 U	U	mg/kg	0.033	0.0030	SW846 8082A	9/19/16 01:15	CMA	9/19/16 16:07	EGO	J
Aroclor-1016	0.033 U	U	mg/kg	0.033	0.0060	SW846 8082A	9/19/16 01:15	CMA	9/19/16 16:07	EGO	J
Aroclor-1221	0.033 U	U	mg/kg	0.033	0.0030	SW846 8082A	9/19/16 01:15	CMA	9/19/16 16:07	EGO	J
Aroclor-1232	0.033 U	U	mg/kg	0.033	0.0060	SW846 8082A	9/19/16 01:15	CMA	9/19/16 16:07	EGO	J
Aroclor-1242	0.033 U	U	mg/kg	0.033	0.0090	SW846 8082A	9/19/16 01:15	CMA	9/19/16 16:07	EGO	J
Aroclor-1248	0.033 U	U	mg/kg	0.033	0.0060	SW846 8082A	9/19/16 01:15	CMA	9/19/16 16:07	EGO	J
Aroclor-1254	0.033 U	U	mg/kg	0.033	0.0060	SW846 8082A	9/19/16 01:15	CMA	9/19/16 16:07	EGO	J
Aroclor-1260	0.033 U	U	mg/kg	0.033	0.0060	SW846 8082A	9/19/16 01:15	CMA	9/19/16 16:07	EGO	J
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	81.4		%	49 - 115		SW846 8082A	9/19/16 01:15	CMA	9/19/16 16:07	EGO	J
Tetrachloro-m-xylene (S)	90.4		%	27 - 137		SW846 8082A	9/19/16 01:15	CMA	9/19/16 16:07	EGO	J
PESTICIDES											
Aldrin	1.7 U	U	ug/kg	1.7	0.55	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
alpha-BHC	1.7 U	U	ug/kg	1.7	0.15	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
beta-BHC	1.7 U	U	ug/kg	1.7	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
delta-BHC	1.7 U	U	ug/kg	1.7	0.13	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
gamma-BHC	1.7 U	U	ug/kg	1.7	0.14	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
alpha-Chlordane	1.7 U	U	ug/kg	1.7	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
gamma-Chlordane	1.7 U	U	ug/kg	1.7	0.29	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
4,4'-DDD	3.3 U	U	ug/kg	3.3	0.27	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
4,4'-DDE	3.3 U	U	ug/kg	3.3	0.45	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
4,4'-DDT	3.3 U	U	ug/kg	3.3	0.38	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Dieldrin	3.3 U	U	ug/kg	3.3	0.38	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Endosulfan I	1.7 U	U	ug/kg	1.7	0.21	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Endosulfan II	3.3 U	U	ug/kg	3.3	0.69	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Endosulfan Sulfate	3.3 U	U	ug/kg	3.3	0.22	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Endrin	3.3 U	U	ug/kg	3.3	0.24	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Endrin Aldehyde	3.3 U	U	ug/kg	3.3	0.36	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Endrin Ketone	3.3 U	U	ug/kg	3.3	0.46	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Heptachlor	1.7 U	U	ug/kg	1.7	0.17	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Heptachlor Epoxide	1.7 U	U	ug/kg	1.7	0.17	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429003** Date Collected: 9/14/2016 12:00 Matrix: Solid

Sample ID: **SB-1(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Methoxychlor	3.3 U	U	ug/kg	3.3	0.44	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Mirex	3.3 U	U	ug/kg	3.3	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Toxaphene	35.1 U	U	ug/kg	35.1	5.8	SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	73.3		%	30 - 135		SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
Tetrachloro-m-xylene (S)	64.6		%	30 - 111		SW846 8081B	9/19/16 01:15	CMA	9/19/16 18:58	RWS	J
HERBICIDES											
2,4-D	70.4 U	U	ug/kg	70.4	27.3	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:41	KJH	J
2,4-DB	70.4 U	U	ug/kg	70.4	37.8	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:41	KJH	J
Dalapon	70.4 U	U	ug/kg	70.4	17.9	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:41	KJH	J
Dicamba	70.4 U	U	ug/kg	70.4	25.2	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:41	KJH	J
Dichloroprop	70.4 U	U	ug/kg	70.4	28.4	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:41	KJH	J
Dinoseb	176 U	U	ug/kg	176	35.7	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:41	KJH	J
4-Nitrophenol	70.4 U	U	ug/kg	70.4	24.2	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:41	KJH	J
2,4,5-T	70.4 U	U	ug/kg	70.4	29.4	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:41	KJH	J
2,4,5-TP	70.4 U	U	ug/kg	70.4	32.6	SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:41	KJH	J
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	73.4		%	36 - 113		SW846 8151A	9/19/16 01:55	VLM	9/19/16 20:41	KJH	J
WET CHEMISTRY											
Cyanide, Reactive	10.0 U	U	ppm	10.0	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	J
Hexavalent Chromium	2.1 U	U	mg/kg	2.1	0.41	SW846 7196A	9/17/16 11:00	AHI	9/17/16 15:30	AHI	J
Ignitability	Not Ignitable	192				SW846 1030			9/23/16 09:30	AXC	J
Moisture	6.4		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
Sulfide, Reactive	5.6J	J	ppm	6.3	1.3	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	J
Total Solids	93.6		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
METALS											
Aluminum, Total	3530		mg/kg	8.9	3.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Antimony, Total	1.8 U	U	mg/kg	1.8	0.59	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Arsenic, Total	1.8 U	U	mg/kg	1.8	0.59	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Barium, Total	10.8		mg/kg	0.89	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Beryllium, Total	0.89 U	U	mg/kg	0.89	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Cadmium, Total	0.45 U	U	mg/kg	0.45	0.15	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Calcium, Total	657		mg/kg	8.9	3.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Chromium, Total	4.4		mg/kg	0.89	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Cobalt, Total	2.5		mg/kg	0.89	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

Lab ID: **2175429003** Date Collected: 9/14/2016 12:00 Matrix: Solid

Sample ID: **SB-1(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Copper, Total	5.5		mg/kg	1.8	0.59	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Iron, Total	8600		mg/kg	8.9	3.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Lead, Total	2.1		mg/kg	1.8	0.59	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Magnesium, Total	1140	190	mg/kg	8.9	3.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Manganese, Total	184		mg/kg	0.89	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Mercury, Total	0.050 U	U	mg/kg	0.050	0.016	SW846 7471B	9/20/16 12:30	MNP	9/20/16 14:17	MNP	J2
Nickel, Total	6.2		mg/kg	1.8	0.59	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Potassium, Total	613	191	mg/kg	44.5	14.9	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Selenium, Total	4.5 U	U	mg/kg	4.5	1.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Silver, Total	0.45 U	U	mg/kg	0.45	0.15	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Sodium, Total	28.5J	J	mg/kg	44.5	14.9	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Thallium, Total	2.7 U	U	mg/kg	2.7	0.89	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Vanadium, Total	10.0		mg/kg	0.89	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1
Zinc, Total	17.8		mg/kg	1.8	0.59	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:41	TSS	J1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2175429001	1	SB-1(0-4ft)	SW846 8260C	Acrolein
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 6.71 and the control limits were 18 to 139.				
2175429001	2	SB-1(0-4ft)	SW846 8260C	Acrolein
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 16 and the control limits were 18 to 139.				
2175429001	3	SB-1(0-4ft)	SW846 7196A	Hexavalent Chromium
The recovery of the Matrix Spike (MS) Soluble and Insoluble associated to this analyte was outside of the established control limits.				
2175429001	4	SB-1(0-4ft)	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175429002	1	SB-1(4-8ft)	SW846 8260C	Acrolein
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 6.71 and the control limits were 18 to 139.				
2175429002	2	SB-1(4-8ft)	SW846 8260C	Acrolein
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 16 and the control limits were 18 to 139.				
2175429002	3	SB-1(4-8ft)	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175429003	1	SB-1(8-12ft)	SW846 8260C	Acrolein
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 6.71 and the control limits were 18 to 139.				
2175429003	2	SB-1(8-12ft)	SW846 8260C	Acrolein
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 16 and the control limits were 18 to 139.				
2175429003	3	SB-1(8-12ft)	SW846 8260C	Methyl acetate
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 288 and the control limits were 70 to 130.				
2175429003	4	SB-1(8-12ft)	SW846 8260C	Methyl acetate
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 245 and the control limits were 70 to 130.				
2175429003	5	SB-1(8-12ft)	SW846 8260C	Freon 113
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 127 and the control limits were 40 to 109.				
2175429003	6	SB-1(8-12ft)	SW846 8260C	Freon 113
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 124 and the control limits were 40 to 109.				
2175429003	7	SB-1(8-12ft)	SW846 8260C	Vinyl Acetate
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Vinyl Acetate. The % Recovery was reported as 22.2 and the control limits were 30 to 154.				
2175429003	8	SB-1(8-12ft)	SW846 8260C	Vinyl Acetate
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Vinyl Acetate. The RPD was reported as 41.3 and the upper control limit is 40.				
2175429003	9	SB-1(8-12ft)	SW846 8260C	Ethyl Acetate
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Ethyl Acetate. The % Recovery was reported as 39.3 and the control limits were 43 to 152.				
2175429003	10	SB-1(8-12ft)	SW846 8260C	Ethyl Methacrylate
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Ethyl Methacrylate. The % Recovery was reported as 56.6 and the control limits were 78 to 126.				

ANALYTICAL RESULTS

Workorder: 2175429 CBR021|2016-MALTA NY SITE-WAST

2175429003	11	SB-1(8-12ft)	SW846 8260C	Ethyl Methacrylate

The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Ethyl Methacrylate. The % Recovery was reported as 62.3 and the control limits were 78 to 126.

2175429003	190	SB-1(8-12ft)	SW846 6010C	Magnesium, Total

One of the two matrix spike analyses performed on this sample failed to meet acceptable recovery limits. The other matrix spike was within acceptable recovery limits. Matrix interferences are the possible cause for the failure.

2175429003	191	SB-1(8-12ft)	SW846 6010C	Potassium, Total

One of the two matrix spike analyses performed on this sample failed to meet acceptable recovery limits. The other matrix spike was within acceptable recovery limits. Matrix interferences are the possible cause for the failure.

2175429003	192	SB-1(8-12ft)	SW846 1030	Ignitability

According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)

2175429003	193	SB-1(8-12ft)	SW846 8270D	Hexachlorocyclopentadiene

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Hexachlorocyclopentadiene. The % Recovery was reported as 32.1 and the control limits were 33 to 109.

2175429003	194	SB-1(8-12ft)	SW846 8270D	2-Methyl-4,6-dinitrophenol

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte 2-Methyl-4,6-dinitrophenol. The % Recovery was reported as 49.2 and the control limits were 53 to 131.

2175429003	195	SB-1(8-12ft)	SW846 8270D	Benzidine

The QC sample type MS for method SW846 8270D was outside the control limits for the analyte Benzidine. The % Recovery was reported as 0 and the control limits were 10 to 114.

2175429003	196	SB-1(8-12ft)	SW846 8270D	Benzidine

The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzidine. The % Recovery was reported as 0 and the control limits were 10 to 114.

ALS Environmental
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Middletown, PA 17057
P. 717-944-5541
F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier:

Tracking #:

* 2 1 7 5 4 2 9 *

Co. Name: CBBI Environmental & Infrastructure Inc.

Contact (Report to): Brian Neumann Phone: 518-785-2354

Address: 13 British American Blvd
Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area/154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] -Y Brian.Neumann@CBI.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs 8260C	SVOCs 8270D	PCBs 8082A	Pesticides 8081B	Herbicides 8151A	Total Metals 6010C and 7470A	Hexavalent Chromium 7196A	Reactivity (7.3.3.2), Ignitability (1030)
***Container Type						Encore	←		CG	→		CG	CG
***Container Size						5g	←		8oz	→		8oz	8oz
*** Preservative						None	←		None	→		None	None
						Enter Number of Containers Per Analysis							
1 SB-1 (0ft-4ft)		9-14-16	1030	G	SO	3	←		1	→		1	1
2 SB-1 (4ft-8ft)			1130	G	SO	3	←		1	→		1	1
3 SB-1 (8ft-12ft)			1200	G	SO	3	←		1	→		1	1
4 SB-1 (8ft-12ft)	MS		1200	G	SO	3	←		1	→		1	1
5 SB-1 (8ft-12ft)	MSD	↓	1200	G	SO	3	←		1	→		1	1
6													
7													
8													

(completed by Sample Receiving)

Performed by: [illegible]

Cooler Temp: 3°C

Therm. ID: IR3

No. of Coolers: 1

Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	Y	Y	Y	Y	
	N	N	N	N	N
	Y	Y	Y	Y	Y
	N	N	N	N	N
	Y	Y	Y	Y	Y
	Custody seals Present?	(If present) Seals Intact?	Received on Ice?	COC/Labels complete/accurate?	Container in good condition?

SAMPLED BY (Please Print): Adam Norrelle

Project Comments: See QAPP 9-16-16 1155

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Adam Norrelle CBI	9-14-16	1640	2	9/14/16	1640
3	9/14/16	1700	4	9/16/16	0809
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other

EDDs Required? [ ] If yes, format type:

DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ] Other

Enter PWSID No.

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite

**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

September 23, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2175452**
Purchase Order:	**962015**	Workorder ID:	**CBR022|2016-MALTA NY SITE-WAST**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Friday, September 16, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2175452001	SB-2(0-4ft)	Solid	9/15/2016 09:10	9/16/2016 09:09	Collected by Client
2175452002	SB-2(4-8ft)	Solid	9/15/2016 09:30	9/16/2016 09:09	Collected by Client
2175452003	SB-2(8-12ft)	Solid	9/15/2016 09:50	9/16/2016 09:09	Collected by Client
2175452004	SB-3(0-4ft)	Solid	9/15/2016 13:30	9/16/2016 09:09	Collected by Client
2175452005	SB-3(4-8ft)	Solid	9/15/2016 13:45	9/16/2016 09:09	Collected by Client
2175452006	SB-3(8-12ft)	Solid	9/15/2016 14:00	9/16/2016 09:09	Collected by Client
2175452007	DUP2-SOIL	Solid	9/15/2016 00:00	9/16/2016 09:09	Collected by Client

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SAMPLE SUMMARY

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452001** Date Collected: 9/15/2016 09:10 Matrix: Solid

Sample ID: **SB-2(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	14.7		ug/kg	11.7	5.4	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Acetonitrile	11.7 U	U	ug/kg	11.7	4.0	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Acrolein	58.5 U	U,1,2	ug/kg	58.5	7.7	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Acrylonitrile	11.7 U	U	ug/kg	11.7	3.2	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Benzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Benzyl Chloride	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Bromobenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Bromochloromethane	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Bromodichloromethane	2.3 U	U	ug/kg	2.3	0.83	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Bromoform	2.3 U	U	ug/kg	2.3	0.61	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Bromomethane	2.3 U	U	ug/kg	2.3	0.61	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
2-Butanone	11.7 U	U	ug/kg	11.7	3.7	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
tert-Butyl Alcohol	11.7 U	U	ug/kg	11.7	4.1	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
n-Butylbenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
tert-Butylbenzene	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
sec-Butylbenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Carbon Disulfide	2.3 U	U	ug/kg	2.3	0.74	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Carbon Tetrachloride	6.8		ug/kg	2.3	0.60	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Chlorobenzene	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Chlorodibromomethane	2.3 U	U	ug/kg	2.3	0.80	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Chloroethane	5.9 U	U	ug/kg	5.9	1.0	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Chloroform	2.9		ug/kg	2.3	0.62	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Chloromethane	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Chloroprene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
3-Chloro-1-propene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
o-Chlorotoluene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
p-Chlorotoluene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Cyclohexane	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,2-Dibromo-3-chloropropane	5.9 U	U	ug/kg	5.9	3.4	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,2-Dibromoethane	2.3 U	U	ug/kg	2.3	0.63	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Dibromomethane	2.3 U	U	ug/kg	2.3	0.84	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,2-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,3-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,4-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Dichlorodifluoromethane	2.3 U	U	ug/kg	2.3	0.78	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,1-Dichloroethane	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452001** Date Collected: 9/15/2016 09:10 Matrix: Solid

Sample ID: **SB-2(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	1.7J	J	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,1-Dichloroethene	2.3 U	U	ug/kg	2.3	0.61	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
cis-1,2-Dichloroethene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
trans-1,2-Dichloroethene	2.3 U	U	ug/kg	2.3	0.61	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,3-Dichloropropane	2.3 U	U	ug/kg	2.3	0.97	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
2,2-Dichloropropane	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,2-Dichloropropane	2.3 U	U	ug/kg	2.3	0.70	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,1-Dichloropropene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
cis-1,3-Dichloropropene	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
trans-1,3-Dichloropropene	2.3 U	U	ug/kg	2.3	0.68	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,4-Dioxane	87.8 U	U	ug/kg	87.8	20.8	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Ethyl Methacrylate	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Ethyl Acetate	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Ethylbenzene	2.3 U	U	ug/kg	2.3	0.80	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Freon 113	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
2-Hexanone	11.7 U	U	ug/kg	11.7	3.3	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Isobutyl alcohol	58.5 U	U	ug/kg	58.5	9.1	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Isopropylbenzene	2.3 U	U	ug/kg	2.3	0.71	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
p-Isopropyltoluene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Methacrylonitrile	2.3 U	U	ug/kg	2.3	0.63	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Methyl methacrylate	5.9 U	U	ug/kg	5.9	2.7	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Methyl acetate	2.3 U	U	ug/kg	2.3	0.69	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Methyl cyclohexane	2.3 U	U	ug/kg	2.3	0.66	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Methyl t-Butyl Ether	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
4-Methyl-2-Pentanone(MIBK)	11.7 U	U	ug/kg	11.7	4.4	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Methylene Chloride	1.6J	J	ug/kg	2.3	0.91	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Naphthalene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Propionitrile	11.7 U	U	ug/kg	11.7	4.9	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
n-Propylbenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Styrene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,1,1,2-Tetrachloroethane	2.3 U	U	ug/kg	2.3	0.75	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,1,2,2-Tetrachloroethane	2.3 U	U	ug/kg	2.3	0.66	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Tetrachloroethene	2.3 U	U	ug/kg	2.3	0.70	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Toluene	2.3 U	U	ug/kg	2.3	0.78	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Total Xylenes	7.0 U	U	ug/kg	7.0	1.6	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,2,4-Trichlorobenzene	5.9 U	U	ug/kg	5.9	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,1,1-Trichloroethane	2.3 U	U	ug/kg	2.3	0.73	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,1,2-Trichloroethane	2.3 U	U	ug/kg	2.3	0.66	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452001** Date Collected: 9/15/2016 09:10 Matrix: Solid

Sample ID: **SB-2(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Trichlorofluoromethane	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,2,3-Trichloropropane	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,2,4-Trimethylbenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
1,3,5-Trimethylbenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Vinyl Acetate	2.3 U	U	ug/kg	2.3	0.61	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Vinyl Chloride	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
o-Xylene	2.3 U	U	ug/kg	2.3	0.68	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
mp-Xylene	4.7 U	U	ug/kg	4.7	0.97	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	72.4		%	56 - 124	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
4-Bromofluorobenzene (S)	87.1		%	51 - 128	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Dibromofluoromethane (S)	80.8		%	62 - 123	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
Toluene-d8 (S)	85		%	59 - 131	SW846 8260C	9/19/16 15:54	TMP	9/21/16 18:05	TMP	B
SEMIVOLATILES										
Acenaphthene	53.6 U	U	ug/kg	53.6	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Acenaphthylene	53.6 U	U	ug/kg	53.6	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Acetophenone	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Aniline	214 U	U	ug/kg	214	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Anthracene	53.6 U	U	ug/kg	53.6	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Atrazine	107 U	U	ug/kg	107	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Benzaldehyde	214 U	U	ug/kg	214	18.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Benzidine	214 U	U	ug/kg	214	34.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Benzo(a)anthracene	12.4J	J	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Benzo(a)pyrene	53.6 U	U	ug/kg	53.6	4.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Benzo(b)fluoranthene	12.1J	J	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Benzo(g,h,i)perylene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Benzoic acid	81.7J	J	ug/kg	579	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Benzo(k)fluoranthene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Benzyl Alcohol	107 U	U	ug/kg	107	19.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Biphenyl	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
4-Bromophenyl-phenylether	107 U	U	ug/kg	107	9.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Butylbenzylphthalate	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Caprolactam	214 U	U	ug/kg	214	19.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Carbazole	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
4-Chloro-3-methylphenol	214 U	U	ug/kg	214	10.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
4-Chloroaniline	214 U	U	ug/kg	214	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452001** Date Collected: 9/15/2016 09:10 Matrix: Solid

Sample ID: **SB-2(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	107 U	U	ug/kg	107	9.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
bis(2-Chloroethyl)ether	107 U	U	ug/kg	107	13.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
bis(2-Chloroisopropyl)ether	107 U	U	ug/kg	107	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2-Chloronaphthalene	107 U	U	ug/kg	107	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2-Chlorophenol	214 U	U	ug/kg	214	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
4-Chlorophenyl-phenylether	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Chrysene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
mp-Cresol	214 U	U	ug/kg	214	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
o-Cresol	214 U	U	ug/kg	214	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Di-n-Butylphthalate	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Di-n-Octylphthalate	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Dibenzo(a,h)anthracene	53.6 U	U	ug/kg	53.6	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Dibenzofuran	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
1,2-Dichlorobenzene	107 U	U	ug/kg	107	9.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
1,3-Dichlorobenzene	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
1,4-Dichlorobenzene	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
3,3-Dichlorobenzidine	214 U	U	ug/kg	214	40.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2,4-Dichlorophenol	214 U	U	ug/kg	214	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2,6-Dichlorophenol	214 U	U	ug/kg	214	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Diethylphthalate	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Dimethoate	214 U	U	ug/kg	214	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2,4-Dimethylphenol	214 U	U	ug/kg	214	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Dimethylphthalate	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
1,2-Dinitrobenzene	107 U	U	ug/kg	107	20.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
1,4-Dinitrobenzene	107 U	U	ug/kg	107	15.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2,4-Dinitrophenol	214 U	U	ug/kg	214	42.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2,4-Dinitrotoluene	107 U	U	ug/kg	107	9.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2,6-Dinitrotoluene	107 U	U	ug/kg	107	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Diphenylamine	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
1,2-Diphenylhydrazine	107 U	U	ug/kg	107	9.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
bis(2-Ethylhexyl)phthalate	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Fluoranthene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Fluorene	53.6 U	U	ug/kg	53.6	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Hexachlorobenzene	107 U	U	ug/kg	107	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Hexachlorobutadiene	107 U	U	ug/kg	107	10.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Hexachlorocyclopentadiene	214 U	U	ug/kg	214	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Hexachloroethane	107 U	U	ug/kg	107	9.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Indeno(1,2,3-cd)pyrene	9.7J	J	ug/kg	53.6	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452001** Date Collected: 9/15/2016 09:10 Matrix: Solid

Sample ID: **SB-2(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	107 U	U	ug/kg	107	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2-Methyl-4,6-dinitrophenol	214 U	U	ug/kg	214	27.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2-Methylnaphthalene	107 U	U	ug/kg	107	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2-Naphthylamine	214 U	U	ug/kg	214	17.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Naphthalene	53.6 U	U	ug/kg	53.6	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2-Nitroaniline	214 U	U	ug/kg	214	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
3-Nitroaniline	214 U	U	ug/kg	214	21.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
4-Nitroaniline	214 U	U	ug/kg	214	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Nitrobenzene	107 U	U	ug/kg	107	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2-Nitrophenol	214 U	U	ug/kg	214	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
4-Nitrophenol	214 U	U	ug/kg	214	15.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
N-Nitrosodi-n-butylamine	107 U	U	ug/kg	107	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
N-Nitrosodiethylamine	107 U	U	ug/kg	107	13.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
N-Nitrosodimethylamine	107 U	U	ug/kg	107	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
N-Nitroso-di-n-propylamine	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
N-Nitrosodiphenylamine	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
N-Nitrosopyrrolidine	107 U	U	ug/kg	107	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Pentachlorobenzene	107 U	U	ug/kg	107	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Pentachlorophenol	214 U	U	ug/kg	214	27.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Phenanthrene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Phenol	214 U	U	ug/kg	214	10.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Pyrene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Pyridine	214 U	U	ug/kg	214	19.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Resorcinol	107 U	U	ug/kg	107	15.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
1,2,4,5-Tetrachlorobenzene	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2,3,4,6-Tetrachlorophenol	214 U	U	ug/kg	214	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
1,2,4-Trichlorobenzene	107 U	U	ug/kg	107	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2,4,5-Trichlorophenol	214 U	U	ug/kg	214	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2,4,6-Trichlorophenol	214 U	U	ug/kg	214	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	87.7		%	19 - 132	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2-Fluorobiphenyl (S)	78.4		%	40 - 110	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
2-Fluorophenol (S)	75.6		%	26 - 116	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Nitrobenzene-d5 (S)	76.3		%	38 - 112	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Phenol-d5 (S)	75.6		%	35 - 111	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D
Terphenyl-d14 (S)	83.3		%	45 - 126	SW846 8270D	9/19/16 10:10	JTH	9/19/16 20:36	GEC	D

PCBs

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452001** Date Collected: 9/15/2016 09:10 Matrix: Solid

Sample ID: **SB-2(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	0.035 U	U	mg/kg	0.035	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:23	EGO	D
Aroclor-1016	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:23	EGO	D
Aroclor-1221	0.035 U	U	mg/kg	0.035	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:23	EGO	D
Aroclor-1232	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:23	EGO	D
Aroclor-1242	0.035 U	U	mg/kg	0.035	0.0096	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:23	EGO	D
Aroclor-1248	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:23	EGO	D
Aroclor-1254	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:23	EGO	D
Aroclor-1260	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:23	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	73.2		%	49 - 115		SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:23	EGO	D
Tetrachloro-m-xylene (S)	86.5		%	27 - 137		SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:23	EGO	D
PESTICIDES											
Aldrin	1.8 U	U	ug/kg	1.8	0.59	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
alpha-BHC	1.8 U	U	ug/kg	1.8	0.16	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
beta-BHC	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
delta-BHC	1.8 U	U	ug/kg	1.8	0.14	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
gamma-BHC	1.8 U	U	ug/kg	1.8	0.15	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
alpha-Chlordane	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
gamma-Chlordane	1.8 U	U	ug/kg	1.8	0.31	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
4,4'-DDD	3.5 U	U	ug/kg	3.5	0.29	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
4,4'-DDE	0.61J	J	ug/kg	3.5	0.48	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
4,4'-DDT	1.2J	J	ug/kg	3.5	0.40	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Dieldrin	3.5 U	U	ug/kg	3.5	0.40	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Endosulfan I	1.8 U	U	ug/kg	1.8	0.22	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Endosulfan II	3.5 U	U	ug/kg	3.5	0.73	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Endosulfan Sulfate	3.5 U	U	ug/kg	3.5	0.23	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Endrin	3.5 U	U	ug/kg	3.5	0.26	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Endrin Aldehyde	3.5 U	U	ug/kg	3.5	0.38	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Endrin Ketone	3.5 U	U	ug/kg	3.5	0.49	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Heptachlor	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Heptachlor Epoxide	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Methoxychlor	3.5 U	U	ug/kg	3.5	0.47	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Mirex	3.5 U	U	ug/kg	3.5	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Toxaphene	37.3 U	U	ug/kg	37.3	6.2	SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	66.6		%	30 - 135		SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452001** Date Collected: 9/15/2016 09:10 Matrix: Solid

Sample ID: **SB-2(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	57.9		%	30 - 111		SW846 8081B	9/19/16 01:15	CMA	9/19/16 19:45	RWS	D
HERBICIDES											
2,4-D	72.1 U	U	ug/kg	72.1	28.0	SW846 8151A	9/19/16 01:55	VLM	9/19/16 22:33	KJH	D
2,4-DB	72.1 U	U	ug/kg	72.1	38.7	SW846 8151A	9/19/16 01:55	VLM	9/19/16 22:33	KJH	D
Dalapon	72.1 U	U	ug/kg	72.1	18.3	SW846 8151A	9/19/16 01:55	VLM	9/19/16 22:33	KJH	D
Dicamba	72.1 U	U	ug/kg	72.1	25.8	SW846 8151A	9/19/16 01:55	VLM	9/19/16 22:33	KJH	D
Dichloroprop	72.1 U	U	ug/kg	72.1	29.0	SW846 8151A	9/19/16 01:55	VLM	9/19/16 22:33	KJH	D
Dinoseb	180 U	U	ug/kg	180	36.6	SW846 8151A	9/19/16 01:55	VLM	9/19/16 22:33	KJH	D
4-Nitrophenol	72.1 U	U	ug/kg	72.1	24.7	SW846 8151A	9/19/16 01:55	VLM	9/19/16 22:33	KJH	D
2,4,5-T	72.1 U	U	ug/kg	72.1	30.1	SW846 8151A	9/19/16 01:55	VLM	9/19/16 22:33	KJH	D
2,4,5-TP	72.1 U	U	ug/kg	72.1	33.3	SW846 8151A	9/19/16 01:55	VLM	9/19/16 22:33	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	70.1		%	36 - 113		SW846 8151A	9/19/16 01:55	VLM	9/19/16 22:33	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	D
Hexavalent Chromium	2.2 U	U	mg/kg	2.2	0.42	SW846 7196A	9/17/16 11:00	AHI	9/17/16 15:30	AHI	D
Ignitability	Not Ignitable	3				SW846 1030			9/23/16 09:30	AXC	D
Moisture	7.9		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
Sulfide, Reactive	9.6		ppm	6.2	1.2	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	D
Total Solids	92.1		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
METALS											
Aluminum, Total	8230		mg/kg	9.1	3.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Antimony, Total	1.8 U	U	mg/kg	1.8	0.60	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Arsenic, Total	1.9		mg/kg	1.8	0.60	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Barium, Total	21.2		mg/kg	0.91	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Beryllium, Total	0.91 U	U	mg/kg	0.91	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Cadmium, Total	0.45 U	U	mg/kg	0.45	0.15	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Calcium, Total	446		mg/kg	9.1	3.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Chromium, Total	8.0		mg/kg	0.91	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Cobalt, Total	4.2		mg/kg	0.91	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Copper, Total	9.2		mg/kg	1.8	0.60	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Iron, Total	12400		mg/kg	9.1	3.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Lead, Total	4.7		mg/kg	1.8	0.60	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Magnesium, Total	1570		mg/kg	9.1	3.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Manganese, Total	266		mg/kg	0.91	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452001** Date Collected: 9/15/2016 09:10 Matrix: Solid

Sample ID: **SB-2(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Mercury, Total	0.048 U	U	mg/kg	0.048	0.015	SW846 7471B	9/20/16 12:30	MNP	9/20/16 14:20	MNP	D2
Nickel, Total	9.4		mg/kg	1.8	0.60	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Potassium, Total	776		mg/kg	45.3	15.1	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Selenium, Total	4.5 U	U	mg/kg	4.5	1.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Silver, Total	0.45 U	U	mg/kg	0.45	0.15	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Sodium, Total	31.5J	J	mg/kg	45.3	15.1	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Thallium, Total	2.7 U	U	mg/kg	2.7	0.91	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Vanadium, Total	16.8		mg/kg	0.91	0.30	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1
Zinc, Total	30.7		mg/kg	1.8	0.60	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:50	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452002** Date Collected: 9/15/2016 09:30 Matrix: Solid

Sample ID: **SB-2(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	14.7		ug/kg	14.5	6.7	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Acetonitrile	14.5 U	U	ug/kg	14.5	4.9	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Acrolein	72.5 U	U,1,2	ug/kg	72.5	9.6	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Acrylonitrile	14.5 U	U	ug/kg	14.5	3.9	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Benzene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Benzyl Chloride	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Bromobenzene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Bromochloromethane	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Bromodichloromethane	2.9 U	U	ug/kg	2.9	1.0	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Bromoform	2.9 U	U	ug/kg	2.9	0.75	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Bromomethane	2.9 U	U	ug/kg	2.9	0.75	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
2-Butanone	14.5 U	U	ug/kg	14.5	4.6	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
tert-Butyl Alcohol	14.5 U	U	ug/kg	14.5	5.1	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
n-Butylbenzene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
tert-Butylbenzene	2.9 U	U	ug/kg	2.9	0.80	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
sec-Butylbenzene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Carbon Disulfide	2.9 U	U	ug/kg	2.9	0.91	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Carbon Tetrachloride	2.5J	J	ug/kg	2.9	0.74	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Chlorobenzene	2.9 U	U	ug/kg	2.9	0.74	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Chlorodibromomethane	2.9 U	U	ug/kg	2.9	0.99	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Chloroethane	7.3 U	U	ug/kg	7.3	1.2	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Chloroform	2.7J	J	ug/kg	2.9	0.77	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Chloromethane	2.9 U	U	ug/kg	2.9	0.80	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Chloroprene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
3-Chloro-1-propene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
o-Chlorotoluene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
p-Chlorotoluene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Cyclohexane	2.9 U	U	ug/kg	2.9	0.74	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,2-Dibromo-3-chloropropane	7.3 U	U	ug/kg	7.3	4.2	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,2-Dibromoethane	2.9 U	U	ug/kg	2.9	0.78	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Dibromomethane	2.9 U	U	ug/kg	2.9	1.0	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,2-Dichlorobenzene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,3-Dichlorobenzene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,4-Dichlorobenzene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Dichlorodifluoromethane	2.9 U	U	ug/kg	2.9	0.97	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,1-Dichloroethane	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B

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ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452002** Date Collected: 9/15/2016 09:30 Matrix: Solid

Sample ID: **SB-2(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	2.2J	J	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,1-Dichloroethene	2.9 U	U	ug/kg	2.9	0.75	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
cis-1,2-Dichloroethene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
trans-1,2-Dichloroethene	2.9 U	U	ug/kg	2.9	0.75	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,3-Dichloropropane	2.9 U	U	ug/kg	2.9	1.2	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
2,2-Dichloropropane	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,2-Dichloropropane	2.9 U	U	ug/kg	2.9	0.87	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,1-Dichloropropene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
cis-1,3-Dichloropropene	2.9 U	U	ug/kg	2.9	0.80	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
trans-1,3-Dichloropropene	2.9 U	U	ug/kg	2.9	0.84	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,4-Dioxane	109 U	U	ug/kg	109	25.8	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Ethyl Methacrylate	2.9 U	U	ug/kg	2.9	0.74	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Ethyl Acetate	4.2		ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Ethylbenzene	2.9 U	U	ug/kg	2.9	0.99	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Freon 113	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
2-Hexanone	14.5 U	U	ug/kg	14.5	4.1	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Isobutyl alcohol	72.5 U	U	ug/kg	72.5	11.3	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Isopropylbenzene	2.9 U	U	ug/kg	2.9	0.89	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
p-Isopropyltoluene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Methacrylonitrile	2.9 U	U	ug/kg	2.9	0.78	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Methyl methacrylate	7.3 U	U	ug/kg	7.3	3.3	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Methyl acetate	2.9 U	U	ug/kg	2.9	0.86	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Methyl cyclohexane	2.9 U	U	ug/kg	2.9	0.81	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Methyl t-Butyl Ether	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
4-Methyl-2-Pentanone(MIBK)	14.5 U	U	ug/kg	14.5	5.5	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Methylene Chloride	6.7		ug/kg	2.9	1.1	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Naphthalene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Propionitrile	14.5 U	U	ug/kg	14.5	6.1	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
n-Propylbenzene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Styrene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,1,1,2-Tetrachloroethane	2.9 U	U	ug/kg	2.9	0.93	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,1,2,2-Tetrachloroethane	2.9 U	U	ug/kg	2.9	0.81	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Tetrachloroethene	2.9 U	U	ug/kg	2.9	0.87	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Toluene	2.9 U	U	ug/kg	2.9	0.97	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Total Xylenes	8.7 U	U	ug/kg	8.7	2.0	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,2,4-Trichlorobenzene	7.3 U	U	ug/kg	7.3	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,1,1-Trichloroethane	2.9 U	U	ug/kg	2.9	0.90	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,1,2-Trichloroethane	2.9 U	U	ug/kg	2.9	0.81	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452002** Date Collected: 9/15/2016 09:30 Matrix: Solid

Sample ID: **SB-2(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Trichlorofluoromethane	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,2,3-Trichloropropane	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,2,4-Trimethylbenzene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
1,3,5-Trimethylbenzene	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Vinyl Acetate	2.9 U	U	ug/kg	2.9	0.75	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Vinyl Chloride	2.9 U	U	ug/kg	2.9	0.73	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
o-Xylene	2.9 U	U	ug/kg	2.9	0.84	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
mp-Xylene	5.8 U	U	ug/kg	5.8	1.2	SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	72.6		%	56 - 124		SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
4-Bromofluorobenzene (S)	88.6		%	51 - 128		SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Dibromofluoromethane (S)	79.8		%	62 - 123		SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
Toluene-d8 (S)	81.5		%	59 - 131		SW846 8260C	9/19/16 15:56	TMP	9/21/16 18:28	TMP	B
SEMIVOLATILES											
Acenaphthene	54.6 U	U	ug/kg	54.6	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Acenaphthylene	54.6 U	U	ug/kg	54.6	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Acetophenone	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Aniline	218 U	U	ug/kg	218	16.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Anthracene	54.6 U	U	ug/kg	54.6	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Atrazine	109 U	U	ug/kg	109	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Benzaldehyde	218 U	U	ug/kg	218	18.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Benzidine	218 U	U	ug/kg	218	34.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Benzo(a)anthracene	54.6 U	U	ug/kg	54.6	5.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Benzo(a)pyrene	54.6 U	U	ug/kg	54.6	4.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Benzo(b)fluoranthene	54.6 U	U	ug/kg	54.6	5.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Benzo(g,h,i)perylene	54.6 U	U	ug/kg	54.6	5.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Benzoic acid	94.2J	J	ug/kg	589	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Benzo(k)fluoranthene	54.6 U	U	ug/kg	54.6	5.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Benzyl Alcohol	109 U	U	ug/kg	109	19.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Biphenyl	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
4-Bromophenyl-phenylether	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Butylbenzylphthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Caprolactam	218 U	U	ug/kg	218	19.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Carbazole	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
4-Chloro-3-methylphenol	218 U	U	ug/kg	218	10.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
4-Chloroaniline	218 U	U	ug/kg	218	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452002** Date Collected: 9/15/2016 09:30 Matrix: Solid

Sample ID: **SB-2(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
bis(2-Chloroethyl)ether	109 U	U	ug/kg	109	14.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
bis(2-Chloroisopropyl)ether	109 U	U	ug/kg	109	16.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2-Chloronaphthalene	109 U	U	ug/kg	109	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2-Chlorophenol	218 U	U	ug/kg	218	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
4-Chlorophenyl-phenylether	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Chrysene	54.6 U	U	ug/kg	54.6	5.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
mp-Cresol	218 U	U	ug/kg	218	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
o-Cresol	218 U	U	ug/kg	218	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Di-n-Butylphthalate	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Di-n-Octylphthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Dibenzo(a,h)anthracene	54.6 U	U	ug/kg	54.6	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Dibenzofuran	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
1,2-Dichlorobenzene	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
1,3-Dichlorobenzene	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
1,4-Dichlorobenzene	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
3,3-Dichlorobenzidine	218 U	U	ug/kg	218	41.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2,4-Dichlorophenol	218 U	U	ug/kg	218	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2,6-Dichlorophenol	218 U	U	ug/kg	218	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Diethylphthalate	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Dimethoate	218 U	U	ug/kg	218	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2,4-Dimethylphenol	218 U	U	ug/kg	218	16.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Dimethylphthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
1,2-Dinitrobenzene	109 U	U	ug/kg	109	20.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
1,4-Dinitrobenzene	109 U	U	ug/kg	109	15.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2,4-Dinitrophenol	218 U	U	ug/kg	218	43.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2,4-Dinitrotoluene	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2,6-Dinitrotoluene	109 U	U	ug/kg	109	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Diphenylamine	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
1,2-Diphenylhydrazine	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
bis(2-Ethylhexyl)phthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Fluoranthene	54.6 U	U	ug/kg	54.6	5.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Fluorene	54.6 U	U	ug/kg	54.6	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Hexachlorobenzene	109 U	U	ug/kg	109	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Hexachlorobutadiene	109 U	U	ug/kg	109	10.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Hexachlorocyclopentadiene	218 U	U	ug/kg	218	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Hexachloroethane	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Indeno(1,2,3-cd)pyrene	54.6 U	U	ug/kg	54.6	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452002** Date Collected: 9/15/2016 09:30 Matrix: Solid

Sample ID: **SB-2(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	109 U	U	ug/kg	109	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2-Methyl-4,6-dinitrophenol	218 U	U	ug/kg	218	28.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2-Methylnaphthalene	109 U	U	ug/kg	109	5.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2-Naphthylamine	218 U	U	ug/kg	218	17.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Naphthalene	54.6 U	U	ug/kg	54.6	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2-Nitroaniline	218 U	U	ug/kg	218	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
3-Nitroaniline	218 U	U	ug/kg	218	21.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
4-Nitroaniline	218 U	U	ug/kg	218	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Nitrobenzene	109 U	U	ug/kg	109	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2-Nitrophenol	218 U	U	ug/kg	218	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
4-Nitrophenol	218 U	U	ug/kg	218	15.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
N-Nitrosodi-n-butylamine	109 U	U	ug/kg	109	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
N-Nitrosodiethylamine	109 U	U	ug/kg	109	14.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
N-Nitrosodimethylamine	109 U	U	ug/kg	109	16.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
N-Nitroso-di-n-propylamine	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
N-Nitrosodiphenylamine	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
N-Nitrosopyrrolidine	109 U	U	ug/kg	109	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Pentachlorobenzene	109 U	U	ug/kg	109	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Pentachlorophenol	218 U	U	ug/kg	218	28.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Phenanthrene	54.6 U	U	ug/kg	54.6	5.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Phenol	218 U	U	ug/kg	218	10.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Pyrene	54.6 U	U	ug/kg	54.6	5.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Pyridine	218 U	U	ug/kg	218	19.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Resorcinol	109 U	U	ug/kg	109	15.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
1,2,4,5-Tetrachlorobenzene	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2,3,4,6-Tetrachlorophenol	218 U	U	ug/kg	218	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
1,2,4-Trichlorobenzene	109 U	U	ug/kg	109	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2,4,5-Trichlorophenol	218 U	U	ug/kg	218	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2,4,6-Trichlorophenol	218 U	U	ug/kg	218	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	92.7		%	19 - 132	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2-Fluorobiphenyl (S)	83.3		%	40 - 110	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
2-Fluorophenol (S)	81.9		%	26 - 116	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Nitrobenzene-d5 (S)	83.4		%	38 - 112	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Phenol-d5 (S)	83		%	35 - 111	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D
Terphenyl-d14 (S)	85.9		%	45 - 126	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:02	GEC	D

PCBs

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452002** Date Collected: 9/15/2016 09:30 Matrix: Solid

Sample ID: **SB-2(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	0.035 U	U	mg/kg	0.035	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:34	EGO	D
Aroclor-1016	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:34	EGO	D
Aroclor-1221	0.035 U	U	mg/kg	0.035	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:34	EGO	D
Aroclor-1232	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:34	EGO	D
Aroclor-1242	0.035 U	U	mg/kg	0.035	0.0096	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:34	EGO	D
Aroclor-1248	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:34	EGO	D
Aroclor-1254	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:34	EGO	D
Aroclor-1260	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:34	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	81.4		%	49 - 115		SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:34	EGO	D
Tetrachloro-m-xylene (S)	90.9		%	27 - 137		SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:34	EGO	D
PESTICIDES											
Aldrin	1.8 U	U	ug/kg	1.8	0.59	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
alpha-BHC	1.8 U	U	ug/kg	1.8	0.16	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
beta-BHC	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
delta-BHC	1.8 U	U	ug/kg	1.8	0.14	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
gamma-BHC	1.8 U	U	ug/kg	1.8	0.15	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
alpha-Chlordane	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
gamma-Chlordane	1.8 U	U	ug/kg	1.8	0.31	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
4,4'-DDD	3.5 U	U	ug/kg	3.5	0.29	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
4,4'-DDE	0.51J	J	ug/kg	3.5	0.48	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
4,4'-DDT	0.98J	J	ug/kg	3.5	0.41	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Dieldrin	3.5 U	U	ug/kg	3.5	0.41	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Endosulfan I	1.8 U	U	ug/kg	1.8	0.22	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Endosulfan II	3.5 U	U	ug/kg	3.5	0.74	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Endosulfan Sulfate	3.5 U	U	ug/kg	3.5	0.24	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Endrin	3.5 U	U	ug/kg	3.5	0.26	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Endrin Aldehyde	3.5 U	U	ug/kg	3.5	0.39	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Endrin Ketone	3.5 U	U	ug/kg	3.5	0.49	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Heptachlor	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Heptachlor Epoxide	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Methoxychlor	3.5 U	U	ug/kg	3.5	0.47	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Mirex	3.5 U	U	ug/kg	3.5	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Toxaphene	37.4 U	U	ug/kg	37.4	6.2	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	65.9		%	30 - 135		SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452002** Date Collected: 9/15/2016 09:30 Matrix: Solid

Sample ID: **SB-2(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	53.7		%	30 - 111		SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:00	RWS	D
HERBICIDES											
2,4-D	71.9 U	U	ug/kg	71.9	27.9	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:10	KJH	D
2,4-DB	71.9 U	U	ug/kg	71.9	38.6	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:10	KJH	D
Dalapon	71.9 U	U	ug/kg	71.9	18.2	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:10	KJH	D
Dicamba	71.9 U	U	ug/kg	71.9	25.8	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:10	KJH	D
Dichloroprop	71.9 U	U	ug/kg	71.9	29.0	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:10	KJH	D
Dinoseb	179 U	U	ug/kg	179	36.5	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:10	KJH	D
4-Nitrophenol	71.9 U	U	ug/kg	71.9	24.7	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:10	KJH	D
2,4,5-T	71.9 U	U	ug/kg	71.9	30.0	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:10	KJH	D
2,4,5-TP	71.9 U	U	ug/kg	71.9	33.3	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:10	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	69.1		%	36 - 113		SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:10	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	D
Hexavalent Chromium	2.2 U	U	mg/kg	2.2	0.42	SW846 7196A	9/22/16 11:30	AHI	9/22/16 18:00	AHI	D
Ignitability	Not Ignitable	3				SW846 1030			9/23/16 09:30	AXC	D
Moisture	8.3		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
Sulfide, Reactive	10		ppm	6.2	1.2	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	D
Total Solids	91.7		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
METALS											
Aluminum, Total	11600		mg/kg	10.1	3.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Antimony, Total	2.0 U	U	mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Arsenic, Total	1.8J	J	mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Barium, Total	68.1		mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Beryllium, Total	1.0 U	U	mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Cadmium, Total	0.51 U	U	mg/kg	0.51	0.17	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Calcium, Total	2310		mg/kg	10.1	3.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Chromium, Total	7.2		mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Cobalt, Total	2.1		mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Copper, Total	5.0		mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Iron, Total	8510		mg/kg	10.1	3.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Lead, Total	3.2		mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Magnesium, Total	1990		mg/kg	10.1	3.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Manganese, Total	152		mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452002** Date Collected: 9/15/2016 09:30 Matrix: Solid

Sample ID: **SB-2(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Mercury, Total	0.055 U	U	mg/kg	0.055	0.017	SW846 7471B	9/20/16 12:30	MNP	9/20/16 14:21	MNP	D2
Nickel, Total	5.3		mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Potassium, Total	4290		mg/kg	50.5	16.9	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Selenium, Total	5.1 U	U	mg/kg	5.1	1.7	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Silver, Total	0.51 U	U	mg/kg	0.51	0.17	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Sodium, Total	1970		mg/kg	50.5	16.9	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Thallium, Total	3.0 U	U	mg/kg	3.0	1.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Vanadium, Total	16.2		mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1
Zinc, Total	18.6		mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:54	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452003** Date Collected: 9/15/2016 09:50 Matrix: Solid

Sample ID: **SB-2(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	33.6		ug/kg	13.8	6.4	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Acetonitrile	13.8 U	U	ug/kg	13.8	4.7	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Acrolein	69.1 U	U,1, 2	ug/kg	69.1	9.1	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Acrylonitrile	13.8 U	U	ug/kg	13.8	3.7	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Benzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Benzyl Chloride	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Bromobenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Bromochloromethane	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Bromodichloromethane	2.8 U	U	ug/kg	2.8	0.98	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Bromoform	2.8 U	U	ug/kg	2.8	0.72	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Bromomethane	2.8 U	U	ug/kg	2.8	0.72	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
2-Butanone	13.8 U	U	ug/kg	13.8	4.4	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
tert-Butyl Alcohol	13.8 U	U	ug/kg	13.8	4.8	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
n-Butylbenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
tert-Butylbenzene	2.8 U	U	ug/kg	2.8	0.76	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
sec-Butylbenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Carbon Disulfide	2.8 U	U	ug/kg	2.8	0.87	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Carbon Tetrachloride	3.7		ug/kg	2.8	0.70	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Chlorobenzene	2.8 U	U	ug/kg	2.8	0.70	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Chlorodibromomethane	2.8 U	U	ug/kg	2.8	0.94	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Chloroethane	6.9 U	U	ug/kg	6.9	1.2	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Chloroform	4.1		ug/kg	2.8	0.73	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Chloromethane	2.8 U	U	ug/kg	2.8	0.76	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Chloroprene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
3-Chloro-1-propene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
o-Chlorotoluene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
p-Chlorotoluene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Cyclohexane	2.8 U	U	ug/kg	2.8	0.70	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,2-Dibromo-3-chloropropane	6.9 U	U	ug/kg	6.9	4.0	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,2-Dibromoethane	2.8 U	U	ug/kg	2.8	0.75	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Dibromomethane	2.8 U	U	ug/kg	2.8	0.99	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,2-Dichlorobenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,3-Dichlorobenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,4-Dichlorobenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Dichlorodifluoromethane	2.8 U	U	ug/kg	2.8	0.93	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,1-Dichloroethane	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452003** Date Collected: 9/15/2016 09:50 Matrix: Solid

Sample ID: **SB-2(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	2.3J	J	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,1-Dichloroethene	2.8 U	U	ug/kg	2.8	0.72	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
cis-1,2-Dichloroethene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
trans-1,2-Dichloroethene	2.8 U	U	ug/kg	2.8	0.72	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,3-Dichloropropane	2.8 U	U	ug/kg	2.8	1.1	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
2,2-Dichloropropane	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,2-Dichloropropane	2.8 U	U	ug/kg	2.8	0.83	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,1-Dichloropropene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
cis-1,3-Dichloropropene	2.8 U	U	ug/kg	2.8	0.76	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
trans-1,3-Dichloropropene	2.8 U	U	ug/kg	2.8	0.80	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,4-Dioxane	104 U	U	ug/kg	104	24.6	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Ethyl Methacrylate	2.8 U	U	ug/kg	2.8	0.70	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Ethyl Acetate	1.6J	J	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Ethylbenzene	2.8 U	U	ug/kg	2.8	0.94	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Freon 113	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
2-Hexanone	13.8 U	U	ug/kg	13.8	3.9	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Isobutyl alcohol	69.1 U	U	ug/kg	69.1	10.8	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Isopropylbenzene	2.8 U	U	ug/kg	2.8	0.84	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
p-Isopropyltoluene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Methacrylonitrile	2.8 U	U	ug/kg	2.8	0.75	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Methyl methacrylate	6.9 U	U	ug/kg	6.9	3.2	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Methyl acetate	2.8 U	U	ug/kg	2.8	0.82	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Methyl cyclohexane	2.8 U	U	ug/kg	2.8	0.77	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Methyl t-Butyl Ether	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
4-Methyl-2-Pentanone(MIBK)	13.8 U	U	ug/kg	13.8	5.3	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Methylene Chloride	4.2		ug/kg	2.8	1.1	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Naphthalene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Propionitrile	13.8 U	U	ug/kg	13.8	5.8	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
n-Propylbenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Styrene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,1,1,2-Tetrachloroethane	2.8 U	U	ug/kg	2.8	0.88	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,1,2,2-Tetrachloroethane	2.8 U	U	ug/kg	2.8	0.77	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Tetrachloroethene	2.8 U	U	ug/kg	2.8	0.83	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Toluene	2.8 U	U	ug/kg	2.8	0.93	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Total Xylenes	8.3 U	U	ug/kg	8.3	1.9	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,2,4-Trichlorobenzene	6.9 U	U	ug/kg	6.9	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,1,1-Trichloroethane	2.8 U	U	ug/kg	2.8	0.86	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,1,2-Trichloroethane	2.8 U	U	ug/kg	2.8	0.77	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452003** Date Collected: 9/15/2016 09:50 Matrix: Solid

Sample ID: **SB-2(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Trichlorofluoromethane	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,2,3-Trichloropropane	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,2,4-Trimethylbenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
1,3,5-Trimethylbenzene	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Vinyl Acetate	2.8 U	U	ug/kg	2.8	0.72	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Vinyl Chloride	2.8 U	U	ug/kg	2.8	0.69	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
o-Xylene	2.8 U	U	ug/kg	2.8	0.80	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
mp-Xylene	5.5 U	U	ug/kg	5.5	1.1	SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	71.2		%	56 - 124		SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
4-Bromofluorobenzene (S)	85.4		%	51 - 128		SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Dibromofluoromethane (S)	79.2		%	62 - 123		SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
Toluene-d8 (S)	84.1		%	59 - 131		SW846 8260C	9/19/16 15:59	TMP	9/21/16 18:51	TMP	B
SEMIVOLATILES											
Acenaphthene	50.0 U	U	ug/kg	50.0	6.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Acenaphthylene	50.0 U	U	ug/kg	50.0	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Acetophenone	100 U	U	ug/kg	100	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Aniline	200 U	U	ug/kg	200	15.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Anthracene	50.0 U	U	ug/kg	50.0	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Atrazine	100 U	U	ug/kg	100	11.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Benzaldehyde	200 U	U	ug/kg	200	17.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Benzidine	200 U	U	ug/kg	200	32.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Benzo(a)anthracene	50.0 U	U	ug/kg	50.0	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Benzo(a)pyrene	50.0 U	U	ug/kg	50.0	4.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Benzo(b)fluoranthene	50.0 U	U	ug/kg	50.0	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Benzo(g,h,i)perylene	50.0 U	U	ug/kg	50.0	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Benzoic acid	540 U	U	ug/kg	540	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Benzo(k)fluoranthene	50.0 U	U	ug/kg	50.0	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Benzyl Alcohol	100 U	U	ug/kg	100	18.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Biphenyl	100 U	U	ug/kg	100	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
4-Bromophenyl-phenylether	100 U	U	ug/kg	100	9.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Butylbenzylphthalate	100 U	U	ug/kg	100	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Caprolactam	200 U	U	ug/kg	200	18.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Carbazole	100 U	U	ug/kg	100	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
4-Chloro-3-methylphenol	200 U	U	ug/kg	200	10	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
4-Chloroaniline	200 U	U	ug/kg	200	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452003** Date Collected: 9/15/2016 09:50 Matrix: Solid

Sample ID: **SB-2(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	100 U	U	ug/kg	100	9.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
bis(2-Chloroethyl)ether	100 U	U	ug/kg	100	13.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
bis(2-Chloroisopropyl)ether	100 U	U	ug/kg	100	15.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2-Chloronaphthalene	100 U	U	ug/kg	100	6.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2-Chlorophenol	200 U	U	ug/kg	200	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
4-Chlorophenyl-phenylether	100 U	U	ug/kg	100	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Chrysene	50.0 U	U	ug/kg	50.0	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
mp-Cresol	200 U	U	ug/kg	200	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
o-Cresol	200 U	U	ug/kg	200	11.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Di-n-Butylphthalate	100 U	U	ug/kg	100	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Di-n-Octylphthalate	100 U	U	ug/kg	100	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Dibenzo(a,h)anthracene	50.0 U	U	ug/kg	50.0	6.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Dibenzofuran	100 U	U	ug/kg	100	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
1,2-Dichlorobenzene	100 U	U	ug/kg	100	9.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
1,3-Dichlorobenzene	100 U	U	ug/kg	100	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
1,4-Dichlorobenzene	100 U	U	ug/kg	100	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
3,3-Dichlorobenzidine	200 U	U	ug/kg	200	38.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2,4-Dichlorophenol	200 U	U	ug/kg	200	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2,6-Dichlorophenol	200 U	U	ug/kg	200	11.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Diethylphthalate	100 U	U	ug/kg	100	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Dimethoate	200 U	U	ug/kg	200	11.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2,4-Dimethylphenol	200 U	U	ug/kg	200	15.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Dimethylphthalate	100 U	U	ug/kg	100	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
1,2-Dinitrobenzene	100 U	U	ug/kg	100	19.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
1,4-Dinitrobenzene	100 U	U	ug/kg	100	14.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2,4-Dinitrophenol	200 U	U	ug/kg	200	40.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2,4-Dinitrotoluene	100 U	U	ug/kg	100	9.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2,6-Dinitrotoluene	100 U	U	ug/kg	100	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Diphenylamine	100 U	U	ug/kg	100	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
1,2-Diphenylhydrazine	100 U	U	ug/kg	100	9.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
bis(2-Ethylhexyl)phthalate	100 U	U	ug/kg	100	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Fluoranthene	50.0 U	U	ug/kg	50.0	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Fluorene	50.0 U	U	ug/kg	50.0	6.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Hexachlorobenzene	100 U	U	ug/kg	100	11.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Hexachlorobutadiene	100 U	U	ug/kg	100	10	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Hexachlorocyclopentadiene	200 U	U	ug/kg	200	11.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Hexachloroethane	100 U	U	ug/kg	100	9.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Indeno(1,2,3-cd)pyrene	50.0 U	U	ug/kg	50.0	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452003** Date Collected: 9/15/2016 09:50 Matrix: Solid

Sample ID: **SB-2(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	100 U	U	ug/kg	100	6.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2-Methyl-4,6-dinitrophenol	200 U	U	ug/kg	200	26.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2-Methylnaphthalene	100 U	U	ug/kg	100	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2-Naphthylamine	200 U	U	ug/kg	200	16.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Naphthalene	50.0 U	U	ug/kg	50.0	6.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2-Nitroaniline	200 U	U	ug/kg	200	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
3-Nitroaniline	200 U	U	ug/kg	200	20.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
4-Nitroaniline	200 U	U	ug/kg	200	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Nitrobenzene	100 U	U	ug/kg	100	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2-Nitrophenol	200 U	U	ug/kg	200	11.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
4-Nitrophenol	200 U	U	ug/kg	200	14.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
N-Nitrosodi-n-butylamine	100 U	U	ug/kg	100	11.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
N-Nitrosodiethylamine	100 U	U	ug/kg	100	13.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
N-Nitrosodimethylamine	100 U	U	ug/kg	100	15.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
N-Nitroso-di-n-propylamine	100 U	U	ug/kg	100	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
N-Nitrosodiphenylamine	100 U	U	ug/kg	100	8.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
N-Nitrosopyrrolidine	100 U	U	ug/kg	100	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Pentachlorobenzene	100 U	U	ug/kg	100	11.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Pentachlorophenol	200 U	U	ug/kg	200	26.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Phenanthrene	50.0 U	U	ug/kg	50.0	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Phenol	200 U	U	ug/kg	200	10	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Pyrene	50.0 U	U	ug/kg	50.0	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Pyridine	200 U	U	ug/kg	200	18.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Resorcinol	100 U	U	ug/kg	100	14.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
1,2,4,5-Tetrachlorobenzene	100 U	U	ug/kg	100	7.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2,3,4,6-Tetrachlorophenol	200 U	U	ug/kg	200	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
1,2,4-Trichlorobenzene	100 U	U	ug/kg	100	6.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2,4,5-Trichlorophenol	200 U	U	ug/kg	200	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2,4,6-Trichlorophenol	200 U	U	ug/kg	200	12.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	92.8		%	19 - 132	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2-Fluorobiphenyl (S)	79.5		%	40 - 110	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
2-Fluorophenol (S)	79.7		%	26 - 116	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Nitrobenzene-d5 (S)	81.2		%	38 - 112	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Phenol-d5 (S)	80.7		%	35 - 111	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D
Terphenyl-d14 (S)	87.2		%	45 - 126	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:28	GEC	D

PCBs

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452003** Date Collected: 9/15/2016 09:50 Matrix: Solid

Sample ID: **SB-2(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	0.035 U	U	mg/kg	0.035	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:46	EGO	D
Aroclor-1016	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:46	EGO	D
Aroclor-1221	0.035 U	U	mg/kg	0.035	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:46	EGO	D
Aroclor-1232	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:46	EGO	D
Aroclor-1242	0.035 U	U	mg/kg	0.035	0.0096	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:46	EGO	D
Aroclor-1248	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:46	EGO	D
Aroclor-1254	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:46	EGO	D
Aroclor-1260	0.035 U	U	mg/kg	0.035	0.0064	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:46	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	81.2		%	49 - 115		SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:46	EGO	D
Tetrachloro-m-xylene (S)	97.2		%	27 - 137		SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:46	EGO	D
PESTICIDES											
Aldrin	1.8 U	U	ug/kg	1.8	0.59	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
alpha-BHC	1.8 U	U	ug/kg	1.8	0.16	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
beta-BHC	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
delta-BHC	1.8 U	U	ug/kg	1.8	0.14	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
gamma-BHC	1.8 U	U	ug/kg	1.8	0.15	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
alpha-Chlordane	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
gamma-Chlordane	1.8 U	U	ug/kg	1.8	0.31	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
4,4'-DDD	3.5 U	U	ug/kg	3.5	0.29	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
4,4'-DDE	3.5 U	U	ug/kg	3.5	0.48	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
4,4'-DDT	3.5 U	U	ug/kg	3.5	0.41	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Dieldrin	3.5 U	U	ug/kg	3.5	0.41	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Endosulfan I	1.8 U	U	ug/kg	1.8	0.22	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Endosulfan II	3.5 U	U	ug/kg	3.5	0.74	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Endosulfan Sulfate	3.5 U	U	ug/kg	3.5	0.23	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Endrin	3.5 U	U	ug/kg	3.5	0.26	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Endrin Aldehyde	3.5 U	U	ug/kg	3.5	0.38	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Endrin Ketone	3.5 U	U	ug/kg	3.5	0.49	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Heptachlor	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Heptachlor Epoxide	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Methoxychlor	3.5 U	U	ug/kg	3.5	0.47	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Mirex	3.5 U	U	ug/kg	3.5	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Toxaphene	37.3 U	U	ug/kg	37.3	6.2	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	58.3		%	30 - 135		SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452003** Date Collected: 9/15/2016 09:50 Matrix: Solid

Sample ID: **SB-2(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	47.8		%	30 - 111		SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:16	RWS	D
HERBICIDES											
2,4-D	71.0 U	U	ug/kg	71.0	27.5	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:47	KJH	D
2,4-DB	71.0 U	U	ug/kg	71.0	38.1	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:47	KJH	D
Dalapon	71.0 U	U	ug/kg	71.0	18.0	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:47	KJH	D
Dicamba	71.0 U	U	ug/kg	71.0	25.4	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:47	KJH	D
Dichloroprop	71.0 U	U	ug/kg	71.0	28.6	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:47	KJH	D
Dinoseb	177 U	U	ug/kg	177	36.0	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:47	KJH	D
4-Nitrophenol	71.0 U	U	ug/kg	71.0	24.4	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:47	KJH	D
2,4,5-T	71.0 U	U	ug/kg	71.0	29.7	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:47	KJH	D
2,4,5-TP	71.0 U	U	ug/kg	71.0	32.8	SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:47	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	65.5		%	36 - 113		SW846 8151A	9/19/16 01:55	VLM	9/19/16 23:47	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10.0 U	U	ppm	10.0	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	D
Hexavalent Chromium	2.1 U	U	mg/kg	2.1	0.41	SW846 7196A	9/22/16 11:30	AHI	9/22/16 18:00	AHI	D
Ignitability	Not Ignitable	3				SW846 1030			9/23/16 09:30	AXC	D
Moisture	6.2		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
Sulfide, Reactive	2.4J	J	ppm	6.3	1.3	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	D
Total Solids	93.8		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
METALS											
Aluminum, Total	6890		mg/kg	10.1	3.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Antimony, Total	2.0 U	U	mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Arsenic, Total	1.7J	J	mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Barium, Total	37.0		mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Beryllium, Total	1.0 U	U	mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Cadmium, Total	0.50 U	U	mg/kg	0.50	0.17	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Calcium, Total	2040		mg/kg	10.1	3.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Chromium, Total	6.0		mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Cobalt, Total	1.9		mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Copper, Total	4.0		mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Iron, Total	7470		mg/kg	10.1	3.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Lead, Total	3.1		mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Magnesium, Total	1410		mg/kg	10.1	3.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Manganese, Total	102		mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452003** Date Collected: 9/15/2016 09:50 Matrix: Solid

Sample ID: **SB-2(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Mercury, Total	0.053 U	U	mg/kg	0.053	0.017	SW846 7471B	9/20/16 12:30	MNP	9/20/16 14:22	MNP	D2
Nickel, Total	3.5		mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Potassium, Total	2270		mg/kg	50.3	16.8	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Selenium, Total	5.0 U	U	mg/kg	5.0	1.7	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Silver, Total	0.50 U	U	mg/kg	0.50	0.17	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Sodium, Total	985		mg/kg	50.3	16.8	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Thallium, Total	3.0 U	U	mg/kg	3.0	1.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Vanadium, Total	13.1		mg/kg	1.0	0.34	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1
Zinc, Total	10.5		mg/kg	2.0	0.67	SW846 6010C	9/19/16 12:00	JPS	9/22/16 17:57	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452004** Date Collected: 9/15/2016 13:30 Matrix: Solid

Sample ID: **SB-3(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	5.6J	J	ug/kg	11.6	5.3	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Acetonitrile	11.6 U	U	ug/kg	11.6	3.9	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Acrolein	57.8 U	U,1,2	ug/kg	57.8	7.6	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Acrylonitrile	11.6 U	U	ug/kg	11.6	3.1	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Benzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Benzyl Chloride	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Bromobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Bromochloromethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Bromodichloromethane	2.3 U	U	ug/kg	2.3	0.82	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Bromoform	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Bromomethane	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
2-Butanone	11.6 U	U	ug/kg	11.6	3.7	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
tert-Butyl Alcohol	11.6 U	U	ug/kg	11.6	4.0	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
n-Butylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
tert-Butylbenzene	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
sec-Butylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Carbon Disulfide	2.3 U	U	ug/kg	2.3	0.73	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Carbon Tetrachloride	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Chlorobenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Chlorodibromomethane	2.3 U	U	ug/kg	2.3	0.79	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Chloroethane	5.8 U	U	ug/kg	5.8	0.98	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Chloroform	2.3 U	U	ug/kg	2.3	0.61	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Chloromethane	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Chloroprene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
3-Chloro-1-propene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
o-Chlorotoluene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
p-Chlorotoluene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Cyclohexane	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,2-Dibromo-3-chloropropane	5.8 U	U	ug/kg	5.8	3.4	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,2-Dibromoethane	2.3 U	U	ug/kg	2.3	0.62	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Dibromomethane	2.3 U	U	ug/kg	2.3	0.83	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,2-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,3-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,4-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Dichlorodifluoromethane	2.3 U	U	ug/kg	2.3	0.77	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,1-Dichloroethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452004** Date Collected: 9/15/2016 13:30 Matrix: Solid

Sample ID: **SB-3(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,1-Dichloroethene	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
cis-1,2-Dichloroethene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
trans-1,2-Dichloroethene	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,3-Dichloropropane	2.3 U	U	ug/kg	2.3	0.96	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
2,2-Dichloropropane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,2-Dichloropropane	2.3 U	U	ug/kg	2.3	0.69	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,1-Dichloropropene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
cis-1,3-Dichloropropene	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
trans-1,3-Dichloropropene	2.3 U	U	ug/kg	2.3	0.67	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,4-Dioxane	86.7 U	U	ug/kg	86.7	20.6	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Ethyl Methacrylate	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Ethyl Acetate	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Ethylbenzene	2.3 U	U	ug/kg	2.3	0.79	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Freon 113	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
2-Hexanone	11.6 U	U	ug/kg	11.6	3.2	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Isobutyl alcohol	57.8 U	U	ug/kg	57.8	9.0	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Isopropylbenzene	2.3 U	U	ug/kg	2.3	0.71	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
p-Isopropyltoluene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Methacrylonitrile	2.3 U	U	ug/kg	2.3	0.62	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Methyl methacrylate	5.8 U	U	ug/kg	5.8	2.7	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Methyl acetate	2.3 U	U	ug/kg	2.3	0.68	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Methyl cyclohexane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Methyl t-Butyl Ether	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
4-Methyl-2-Pentanone(MIBK)	11.6 U	U	ug/kg	11.6	4.4	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Methylene Chloride	1.5J	J	ug/kg	2.3	0.90	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Naphthalene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Propionitrile	11.6 U	U	ug/kg	11.6	4.9	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
n-Propylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Styrene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,1,1,2-Tetrachloroethane	2.3 U	U	ug/kg	2.3	0.74	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,1,2,2-Tetrachloroethane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Tetrachloroethene	2.3 U	U	ug/kg	2.3	0.69	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Toluene	2.3 U	U	ug/kg	2.3	0.77	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Total Xylenes	6.9 U	U	ug/kg	6.9	1.6	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,2,4-Trichlorobenzene	5.8 U	U	ug/kg	5.8	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,1,1-Trichloroethane	2.3 U	U	ug/kg	2.3	0.72	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,1,2-Trichloroethane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452004** Date Collected: 9/15/2016 13:30 Matrix: Solid

Sample ID: **SB-3(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Trichlorofluoromethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,2,3-Trichloropropane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,2,4-Trimethylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
1,3,5-Trimethylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Vinyl Acetate	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Vinyl Chloride	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
o-Xylene	2.3 U	U	ug/kg	2.3	0.67	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
mp-Xylene	4.6 U	U	ug/kg	4.6	0.96	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	72.2		%	56 - 124	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
4-Bromofluorobenzene (S)	85.5		%	51 - 128	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Dibromofluoromethane (S)	78.7		%	62 - 123	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
Toluene-d8 (S)	81.9		%	59 - 131	SW846 8260C	9/19/16 16:00	TMP	9/21/16 19:14	TMP	B
SEMIVOLATILES										
Acenaphthene	53.6 U	U	ug/kg	53.6	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Acenaphthylene	53.6 U	U	ug/kg	53.6	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Acetophenone	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Aniline	215 U	U	ug/kg	215	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Anthracene	53.6 U	U	ug/kg	53.6	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Atrazine	107 U	U	ug/kg	107	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Benzaldehyde	30.5J	J	ug/kg	215	18.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Benzidine	215 U	U	ug/kg	215	34.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Benzo(a)anthracene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Benzo(a)pyrene	53.6 U	U	ug/kg	53.6	4.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Benzo(b)fluoranthene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Benzo(g,h,i)perylene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Benzoic acid	41.1J	J	ug/kg	579	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Benzo(k)fluoranthene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Benzyl Alcohol	107 U	U	ug/kg	107	19.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Biphenyl	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
4-Bromophenyl-phenylether	107 U	U	ug/kg	107	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Butylbenzylphthalate	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Caprolactam	215 U	U	ug/kg	215	19.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Carbazole	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
4-Chloro-3-methylphenol	215 U	U	ug/kg	215	10.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
4-Chloroaniline	215 U	U	ug/kg	215	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452004** Date Collected: 9/15/2016 13:30 Matrix: Solid

Sample ID: **SB-3(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	107 U	U	ug/kg	107	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
bis(2-Chloroethyl)ether	107 U	U	ug/kg	107	13.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
bis(2-Chloroisopropyl)ether	107 U	U	ug/kg	107	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2-Chloronaphthalene	107 U	U	ug/kg	107	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2-Chlorophenol	215 U	U	ug/kg	215	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
4-Chlorophenyl-phenylether	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Chrysene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
mp-Cresol	215 U	U	ug/kg	215	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
o-Cresol	215 U	U	ug/kg	215	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Di-n-Butylphthalate	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Di-n-Octylphthalate	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Dibenzo(a,h)anthracene	53.6 U	U	ug/kg	53.6	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Dibenzofuran	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
1,2-Dichlorobenzene	107 U	U	ug/kg	107	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
1,3-Dichlorobenzene	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
1,4-Dichlorobenzene	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
3,3-Dichlorobenzidine	215 U	U	ug/kg	215	40.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2,4-Dichlorophenol	215 U	U	ug/kg	215	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2,6-Dichlorophenol	215 U	U	ug/kg	215	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Diethylphthalate	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Dimethoate	215 U	U	ug/kg	215	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2,4-Dimethylphenol	215 U	U	ug/kg	215	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Dimethylphthalate	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
1,2-Dinitrobenzene	107 U	U	ug/kg	107	20.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
1,4-Dinitrobenzene	107 U	U	ug/kg	107	15.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2,4-Dinitrophenol	215 U	U	ug/kg	215	42.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2,4-Dinitrotoluene	107 U	U	ug/kg	107	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2,6-Dinitrotoluene	107 U	U	ug/kg	107	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Diphenylamine	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
1,2-Diphenylhydrazine	107 U	U	ug/kg	107	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
bis(2-Ethylhexyl)phthalate	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Fluoranthene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Fluorene	53.6 U	U	ug/kg	53.6	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Hexachlorobenzene	107 U	U	ug/kg	107	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Hexachlorobutadiene	107 U	U	ug/kg	107	10.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Hexachlorocyclopentadiene	215 U	U	ug/kg	215	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Hexachloroethane	107 U	U	ug/kg	107	9.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Indeno(1,2,3-cd)pyrene	53.6 U	U	ug/kg	53.6	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452004** Date Collected: 9/15/2016 13:30 Matrix: Solid

Sample ID: **SB-3(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	107 U	U	ug/kg	107	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2-Methyl-4,6-dinitrophenol	215 U	U	ug/kg	215	27.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2-Methylnaphthalene	107 U	U	ug/kg	107	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2-Naphthylamine	215 U	U	ug/kg	215	17.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Naphthalene	53.6 U	U	ug/kg	53.6	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2-Nitroaniline	215 U	U	ug/kg	215	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
3-Nitroaniline	215 U	U	ug/kg	215	21.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
4-Nitroaniline	215 U	U	ug/kg	215	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Nitrobenzene	107 U	U	ug/kg	107	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2-Nitrophenol	215 U	U	ug/kg	215	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
4-Nitrophenol	215 U	U	ug/kg	215	15.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
N-Nitrosodi-n-butylamine	107 U	U	ug/kg	107	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
N-Nitrosodiethylamine	107 U	U	ug/kg	107	13.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
N-Nitrosodimethylamine	107 U	U	ug/kg	107	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
N-Nitroso-di-n-propylamine	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
N-Nitrosodiphenylamine	107 U	U	ug/kg	107	8.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
N-Nitrosopyrrolidine	107 U	U	ug/kg	107	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Pentachlorobenzene	107 U	U	ug/kg	107	11.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Pentachlorophenol	215 U	U	ug/kg	215	27.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Phenanthrene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Phenol	215 U	U	ug/kg	215	10.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Pyrene	53.6 U	U	ug/kg	53.6	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Pyridine	215 U	U	ug/kg	215	19.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Resorcinol	107 U	U	ug/kg	107	15.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
1,2,4,5-Tetrachlorobenzene	107 U	U	ug/kg	107	7.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2,3,4,6-Tetrachlorophenol	215 U	U	ug/kg	215	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
1,2,4-Trichlorobenzene	107 U	U	ug/kg	107	6.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2,4,5-Trichlorophenol	215 U	U	ug/kg	215	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2,4,6-Trichlorophenol	215 U	U	ug/kg	215	12.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	96.6		%	19 - 132	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2-Fluorobiphenyl (S)	86		%	40 - 110	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
2-Fluorophenol (S)	85.4		%	26 - 116	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Nitrobenzene-d5 (S)	82.3		%	38 - 112	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Phenol-d5 (S)	86.3		%	35 - 111	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D
Terphenyl-d14 (S)	94.3		%	45 - 126	SW846 8270D	9/19/16 10:10	JTH	9/19/16 21:54	GEC	D

PCBs

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452004** Date Collected: 9/15/2016 13:30 Matrix: Solid

Sample ID: **SB-3(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	0.035 U	U	mg/kg	0.035	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:57	EGO	D
Aroclor-1016	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:57	EGO	D
Aroclor-1221	0.035 U	U	mg/kg	0.035	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:57	EGO	D
Aroclor-1232	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:57	EGO	D
Aroclor-1242	0.035 U	U	mg/kg	0.035	0.0095	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:57	EGO	D
Aroclor-1248	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:57	EGO	D
Aroclor-1254	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:57	EGO	D
Aroclor-1260	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:57	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	75		%	49 - 115		SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:57	EGO	D
Tetrachloro-m-xylene (S)	87.5		%	27 - 137		SW846 8082A	9/19/16 01:15	CMA	9/19/16 14:57	EGO	D
PESTICIDES											
Aldrin	1.8 U	U	ug/kg	1.8	0.58	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
alpha-BHC	1.8 U	U	ug/kg	1.8	0.16	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
beta-BHC	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
delta-BHC	1.8 U	U	ug/kg	1.8	0.14	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
gamma-BHC	1.8 U	U	ug/kg	1.8	0.15	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
alpha-Chlordane	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
gamma-Chlordane	1.8 U	U	ug/kg	1.8	0.31	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
4,4'-DDD	3.5 U	U	ug/kg	3.5	0.28	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
4,4'-DDE	3.5 U	U	ug/kg	3.5	0.47	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
4,4'-DDT	3.5 U	U	ug/kg	3.5	0.40	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Dieldrin	3.5 U	U	ug/kg	3.5	0.40	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Endosulfan I	1.8 U	U	ug/kg	1.8	0.22	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Endosulfan II	3.5 U	U	ug/kg	3.5	0.73	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Endosulfan Sulfate	3.5 U	U	ug/kg	3.5	0.23	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Endrin	3.5 U	U	ug/kg	3.5	0.25	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Endrin Aldehyde	3.5 U	U	ug/kg	3.5	0.38	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Endrin Ketone	3.5 U	U	ug/kg	3.5	0.48	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Heptachlor	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Heptachlor Epoxide	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Methoxychlor	3.5 U	U	ug/kg	3.5	0.46	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Mirex	3.5 U	U	ug/kg	3.5	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Toxaphene	36.8 U	U	ug/kg	36.8	6.1	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	66		%	30 - 135		SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452004** Date Collected: 9/15/2016 13:30 Matrix: Solid

Sample ID: **SB-3(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	59.9		%	30 - 111		SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:32	RWS	D
HERBICIDES											
2,4-D	70.9 U	U	ug/kg	70.9	27.5	SW846 8151A	9/19/16 01:55	VLM	9/20/16 00:24	KJH	D
2,4-DB	70.9 U	U	ug/kg	70.9	38.1	SW846 8151A	9/19/16 01:55	VLM	9/20/16 00:24	KJH	D
Dalapon	70.9 U	U	ug/kg	70.9	18.0	SW846 8151A	9/19/16 01:55	VLM	9/20/16 00:24	KJH	D
Dicamba	70.9 U	U	ug/kg	70.9	25.4	SW846 8151A	9/19/16 01:55	VLM	9/20/16 00:24	KJH	D
Dichloroprop	70.9 U	U	ug/kg	70.9	28.6	SW846 8151A	9/19/16 01:55	VLM	9/20/16 00:24	KJH	D
Dinoseb	177 U	U	ug/kg	177	36.0	SW846 8151A	9/19/16 01:55	VLM	9/20/16 00:24	KJH	D
4-Nitrophenol	70.9 U	U	ug/kg	70.9	24.3	SW846 8151A	9/19/16 01:55	VLM	9/20/16 00:24	KJH	D
2,4,5-T	70.9 U	U	ug/kg	70.9	29.6	SW846 8151A	9/19/16 01:55	VLM	9/20/16 00:24	KJH	D
2,4,5-TP	70.9 U	U	ug/kg	70.9	32.8	SW846 8151A	9/19/16 01:55	VLM	9/20/16 00:24	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	52.4		%	36 - 113		SW846 8151A	9/19/16 01:55	VLM	9/20/16 00:24	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	D
Hexavalent Chromium	2.1 U	U	mg/kg	2.1	0.40	SW846 7196A	9/22/16 11:30	AHI	9/22/16 18:00	AHI	D
Ignitability	Not Ignitable	3				SW846 1030			9/23/16 09:30	AXC	D
Moisture	7.4		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
Sulfide, Reactive	2.0J	J	ppm	6.2	1.2	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	D
Total Solids	92.6		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
METALS											
Aluminum, Total	7610		mg/kg	10.4	3.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Antimony, Total	2.1 U	U	mg/kg	2.1	0.69	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Arsenic, Total	0.97J	J	mg/kg	2.1	0.69	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Barium, Total	18.6		mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Beryllium, Total	1.0 U	U	mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Cadmium, Total	0.52 U	U	mg/kg	0.52	0.17	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Calcium, Total	489		mg/kg	10.4	3.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Chromium, Total	8.0		mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Cobalt, Total	3.7		mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Copper, Total	9.1		mg/kg	2.1	0.69	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Iron, Total	12300		mg/kg	10.4	3.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Lead, Total	4.0		mg/kg	2.1	0.69	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Magnesium, Total	1550		mg/kg	10.4	3.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Manganese, Total	246		mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452004** Date Collected: 9/15/2016 13:30 Matrix: Solid

Sample ID: **SB-3(0-4ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Mercury, Total	0.050 U	U	mg/kg	0.050	0.016	SW846 7471B	9/20/16 12:30	MNP	9/20/16 14:23	MNP	D2
Nickel, Total	9.0		mg/kg	2.1	0.69	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Potassium, Total	677		mg/kg	51.9	17.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Selenium, Total	5.2 U	U	mg/kg	5.2	1.7	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Silver, Total	0.52 U	U	mg/kg	0.52	0.17	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Sodium, Total	23.2J	J	mg/kg	51.9	17.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Thallium, Total	3.1 U	U	mg/kg	3.1	1.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Vanadium, Total	16.3		mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1
Zinc, Total	24.6		mg/kg	2.1	0.69	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:00	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452005** Date Collected: 9/15/2016 13:45 Matrix: Solid

Sample ID: **SB-3(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	12.0 U	U	ug/kg	12.0	5.5	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Acetonitrile	12.0 U	U	ug/kg	12.0	4.1	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Acrolein	60.2 U	U,1,2	ug/kg	60.2	7.9	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Acrylonitrile	12.0 U	U	ug/kg	12.0	3.2	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Benzene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Benzyl Chloride	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Bromobenzene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Bromochloromethane	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Bromodichloromethane	2.4 U	U	ug/kg	2.4	0.85	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Bromoform	2.4 U	U	ug/kg	2.4	0.63	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Bromomethane	2.4 U	U	ug/kg	2.4	0.63	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
2-Butanone	12.0 U	U	ug/kg	12.0	3.9	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
tert-Butyl Alcohol	12.0 U	U	ug/kg	12.0	4.2	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
n-Butylbenzene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
tert-Butylbenzene	2.4 U	U	ug/kg	2.4	0.66	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
sec-Butylbenzene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Carbon Disulfide	2.4 U	U	ug/kg	2.4	0.76	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Carbon Tetrachloride	2.4 U	U	ug/kg	2.4	0.61	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Chlorobenzene	2.4 U	U	ug/kg	2.4	0.61	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Chlorodibromomethane	2.4 U	U	ug/kg	2.4	0.82	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Chloroethane	6.0 U	U	ug/kg	6.0	1.0	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Chloroform	2.4 U	U	ug/kg	2.4	0.64	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Chloromethane	2.4 U	U	ug/kg	2.4	0.66	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Chloroprene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
3-Chloro-1-propene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
o-Chlorotoluene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
p-Chlorotoluene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Cyclohexane	2.4 U	U	ug/kg	2.4	0.61	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,2-Dibromo-3-chloropropane	6.0 U	U	ug/kg	6.0	3.5	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,2-Dibromoethane	2.4 U	U	ug/kg	2.4	0.65	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Dibromomethane	2.4 U	U	ug/kg	2.4	0.87	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,2-Dichlorobenzene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,3-Dichlorobenzene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,4-Dichlorobenzene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Dichlorodifluoromethane	2.4 U	U	ug/kg	2.4	0.81	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,1-Dichloroethane	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452005** Date Collected: 9/15/2016 13:45 Matrix: Solid

Sample ID: **SB-3(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,1-Dichloroethene	2.4 U	U	ug/kg	2.4	0.63	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
cis-1,2-Dichloroethene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
trans-1,2-Dichloroethene	2.4 U	U	ug/kg	2.4	0.63	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,3-Dichloropropane	2.4 U	U	ug/kg	2.4	1.0	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
2,2-Dichloropropane	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,2-Dichloropropane	2.4 U	U	ug/kg	2.4	0.72	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,1-Dichloropropene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
cis-1,3-Dichloropropene	2.4 U	U	ug/kg	2.4	0.66	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
trans-1,3-Dichloropropene	2.4 U	U	ug/kg	2.4	0.70	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,4-Dioxane	90.3 U	U	ug/kg	90.3	21.4	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Ethyl Methacrylate	2.4 U	U	ug/kg	2.4	0.61	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Ethyl Acetate	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Ethylbenzene	2.4 U	U	ug/kg	2.4	0.82	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Freon 113	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
2-Hexanone	12.0 U	U	ug/kg	12.0	3.4	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Isobutyl alcohol	60.2 U	U	ug/kg	60.2	9.4	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Isopropylbenzene	2.4 U	U	ug/kg	2.4	0.73	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
p-Isopropyltoluene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Methacrylonitrile	2.4 U	U	ug/kg	2.4	0.65	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Methyl methacrylate	6.0 U	U	ug/kg	6.0	2.8	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Methyl acetate	2.4 U	U	ug/kg	2.4	0.71	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Methyl cyclohexane	2.4 U	U	ug/kg	2.4	0.67	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Methyl t-Butyl Ether	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
4-Methyl-2-Pentanone(MIBK)	12.0 U	U	ug/kg	12.0	4.6	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Methylene Chloride	2.8		ug/kg	2.4	0.94	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Naphthalene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Propionitrile	12.0 U	U	ug/kg	12.0	5.1	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
n-Propylbenzene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Styrene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,1,1,2-Tetrachloroethane	2.4 U	U	ug/kg	2.4	0.77	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,1,2,2-Tetrachloroethane	2.4 U	U	ug/kg	2.4	0.67	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Tetrachloroethene	2.4 U	U	ug/kg	2.4	0.72	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Toluene	2.4 U	U	ug/kg	2.4	0.81	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Total Xylenes	7.2 U	U	ug/kg	7.2	1.7	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,2,4-Trichlorobenzene	6.0 U	U	ug/kg	6.0	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,1,1-Trichloroethane	2.4 U	U	ug/kg	2.4	0.75	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,1,2-Trichloroethane	2.4 U	U	ug/kg	2.4	0.67	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452005** Date Collected: 9/15/2016 13:45 Matrix: Solid

Sample ID: **SB-3(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Trichlorofluoromethane	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,2,3-Trichloropropane	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,2,4-Trimethylbenzene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
1,3,5-Trimethylbenzene	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Vinyl Acetate	2.4 U	U	ug/kg	2.4	0.63	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Vinyl Chloride	2.4 U	U	ug/kg	2.4	0.60	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
o-Xylene	2.4 U	U	ug/kg	2.4	0.70	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
mp-Xylene	4.8 U	U	ug/kg	4.8	1.0	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	72.1		%	56 - 124	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
4-Bromofluorobenzene (S)	87.9		%	51 - 128	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Dibromofluoromethane (S)	81.1		%	62 - 123	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
Toluene-d8 (S)	84		%	59 - 131	SW846 8260C	9/19/16 16:02	TMP	9/21/16 19:38	TMP	B
SEMIVOLATILES										
Acenaphthene	50.4 U	U	ug/kg	50.4	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Acenaphthylene	50.4 U	U	ug/kg	50.4	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Acetophenone	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Aniline	202 U	U	ug/kg	202	15.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Anthracene	50.4 U	U	ug/kg	50.4	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Atrazine	101 U	U	ug/kg	101	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Benzaldehyde	202 U	U	ug/kg	202	17.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Benzidine	202 U	U	ug/kg	202	32.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Benzo(a)anthracene	50.4 U	U	ug/kg	50.4	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Benzo(a)pyrene	50.4 U	U	ug/kg	50.4	4.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Benzo(b)fluoranthene	50.4 U	U	ug/kg	50.4	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Benzo(g,h,i)perylene	50.4 U	U	ug/kg	50.4	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Benzoic acid	545 U	U	ug/kg	545	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Benzo(k)fluoranthene	50.4 U	U	ug/kg	50.4	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Benzyl Alcohol	101 U	U	ug/kg	101	18.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Biphenyl	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
4-Bromophenyl-phenylether	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Butylbenzylphthalate	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Caprolactam	202 U	U	ug/kg	202	18.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Carbazole	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
4-Chloro-3-methylphenol	202 U	U	ug/kg	202	10.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
4-Chloroaniline	202 U	U	ug/kg	202	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452005** Date Collected: 9/15/2016 13:45 Matrix: Solid

Sample ID: **SB-3(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
bis(2-Chloroethyl)ether	101 U	U	ug/kg	101	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
bis(2-Chloroisopropyl)ether	101 U	U	ug/kg	101	15.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2-Chloronaphthalene	101 U	U	ug/kg	101	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2-Chlorophenol	202 U	U	ug/kg	202	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
4-Chlorophenyl-phenylether	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Chrysene	50.4 U	U	ug/kg	50.4	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
mp-Cresol	202 U	U	ug/kg	202	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
o-Cresol	202 U	U	ug/kg	202	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Di-n-Butylphthalate	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Di-n-Octylphthalate	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Dibenzo(a,h)anthracene	50.4 U	U	ug/kg	50.4	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Dibenzofuran	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
1,2-Dichlorobenzene	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
1,3-Dichlorobenzene	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
1,4-Dichlorobenzene	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
3,3-Dichlorobenzidine	202 U	U	ug/kg	202	38.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2,4-Dichlorophenol	202 U	U	ug/kg	202	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2,6-Dichlorophenol	202 U	U	ug/kg	202	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Diethylphthalate	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Dimethoate	202 U	U	ug/kg	202	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2,4-Dimethylphenol	202 U	U	ug/kg	202	15.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Dimethylphthalate	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
1,2-Dinitrobenzene	101 U	U	ug/kg	101	19.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
1,4-Dinitrobenzene	101 U	U	ug/kg	101	14.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2,4-Dinitrophenol	202 U	U	ug/kg	202	40.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2,4-Dinitrotoluene	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2,6-Dinitrotoluene	101 U	U	ug/kg	101	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Diphenylamine	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
1,2-Diphenylhydrazine	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
bis(2-Ethylhexyl)phthalate	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Fluoranthene	50.4 U	U	ug/kg	50.4	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Fluorene	50.4 U	U	ug/kg	50.4	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Hexachlorobenzene	101 U	U	ug/kg	101	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Hexachlorobutadiene	101 U	U	ug/kg	101	10.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Hexachlorocyclopentadiene	202 U	U	ug/kg	202	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Hexachloroethane	101 U	U	ug/kg	101	9.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Indeno(1,2,3-cd)pyrene	50.4 U	U	ug/kg	50.4	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452005** Date Collected: 9/15/2016 13:45 Matrix: Solid

Sample ID: **SB-3(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	101 U	U	ug/kg	101	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2-Methyl-4,6-dinitrophenol	202 U	U	ug/kg	202	26.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2-Methylnaphthalene	101 U	U	ug/kg	101	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2-Naphthylamine	202 U	U	ug/kg	202	16.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Naphthalene	50.4 U	U	ug/kg	50.4	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2-Nitroaniline	202 U	U	ug/kg	202	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
3-Nitroaniline	202 U	U	ug/kg	202	20.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
4-Nitroaniline	202 U	U	ug/kg	202	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Nitrobenzene	101 U	U	ug/kg	101	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2-Nitrophenol	202 U	U	ug/kg	202	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
4-Nitrophenol	202 U	U	ug/kg	202	14.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
N-Nitrosodi-n-butylamine	101 U	U	ug/kg	101	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
N-Nitrosodiethylamine	101 U	U	ug/kg	101	13.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
N-Nitrosodimethylamine	101 U	U	ug/kg	101	15.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
N-Nitroso-di-n-propylamine	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
N-Nitrosodiphenylamine	101 U	U	ug/kg	101	8.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
N-Nitrosopyrrolidine	101 U	U	ug/kg	101	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Pentachlorobenzene	101 U	U	ug/kg	101	11.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Pentachlorophenol	202 U	U	ug/kg	202	26.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Phenanthrene	50.4 U	U	ug/kg	50.4	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Phenol	202 U	U	ug/kg	202	10.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Pyrene	50.4 U	U	ug/kg	50.4	5.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Pyridine	202 U	U	ug/kg	202	18.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Resorcinol	101 U	U	ug/kg	101	14.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
1,2,4,5-Tetrachlorobenzene	101 U	U	ug/kg	101	7.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2,3,4,6-Tetrachlorophenol	202 U	U	ug/kg	202	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
1,2,4-Trichlorobenzene	101 U	U	ug/kg	101	6.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2,4,5-Trichlorophenol	202 U	U	ug/kg	202	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2,4,6-Trichlorophenol	202 U	U	ug/kg	202	12.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	91.6		%	19 - 132	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2-Fluorobiphenyl (S)	82		%	40 - 110	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
2-Fluorophenol (S)	80.3		%	26 - 116	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Nitrobenzene-d5 (S)	78.3		%	38 - 112	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Phenol-d5 (S)	79.5		%	35 - 111	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D
Terphenyl-d14 (S)	86		%	45 - 126	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:20	GEC	D

PCBs

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452005** Date Collected: 9/15/2016 13:45 Matrix: Solid

Sample ID: **SB-3(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	0.035 U	U	mg/kg	0.035	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:09	EGO	D
Aroclor-1016	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:09	EGO	D
Aroclor-1221	0.035 U	U	mg/kg	0.035	0.0032	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:09	EGO	D
Aroclor-1232	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:09	EGO	D
Aroclor-1242	0.035 U	U	mg/kg	0.035	0.0095	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:09	EGO	D
Aroclor-1248	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:09	EGO	D
Aroclor-1254	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:09	EGO	D
Aroclor-1260	0.035 U	U	mg/kg	0.035	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:09	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	89.8		%	49 - 115		SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:09	EGO	D
Tetrachloro-m-xylene (S)	93.1		%	27 - 137		SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:09	EGO	D
PESTICIDES											
Aldrin	1.8 U	U	ug/kg	1.8	0.58	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
alpha-BHC	1.8 U	U	ug/kg	1.8	0.16	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
beta-BHC	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
delta-BHC	1.8 U	U	ug/kg	1.8	0.14	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
gamma-BHC	1.8 U	U	ug/kg	1.8	0.15	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
alpha-Chlordane	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
gamma-Chlordane	1.8 U	U	ug/kg	1.8	0.31	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
4,4'-DDD	3.5 U	U	ug/kg	3.5	0.28	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
4,4'-DDE	3.5 U	U	ug/kg	3.5	0.47	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
4,4'-DDT	3.5 U	U	ug/kg	3.5	0.40	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Dieldrin	3.5 U	U	ug/kg	3.5	0.40	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Endosulfan I	1.8 U	U	ug/kg	1.8	0.22	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Endosulfan II	3.5 U	U	ug/kg	3.5	0.73	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Endosulfan Sulfate	3.5 U	U	ug/kg	3.5	0.23	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Endrin	3.5 U	U	ug/kg	3.5	0.25	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Endrin Aldehyde	3.5 U	U	ug/kg	3.5	0.38	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Endrin Ketone	3.5 U	U	ug/kg	3.5	0.49	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Heptachlor	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Heptachlor Epoxide	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Methoxychlor	3.5 U	U	ug/kg	3.5	0.46	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Mirex	3.5 U	U	ug/kg	3.5	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Toxaphene	36.9 U	U	ug/kg	36.9	6.1	SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	62.6		%	30 - 135		SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452005** Date Collected: 9/15/2016 13:45 Matrix: Solid

Sample ID: **SB-3(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	56.3		%	30 - 111		SW846 8081B	9/19/16 01:15	CMA	9/19/16 20:47	RWS	D
HERBICIDES											
2,4-D	70.4 U	U	ug/kg	70.4	27.3	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:01	KJH	D
2,4-DB	70.4 U	U	ug/kg	70.4	37.8	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:01	KJH	D
Dalapon	70.4 U	U	ug/kg	70.4	17.9	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:01	KJH	D
Dicamba	70.4 U	U	ug/kg	70.4	25.2	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:01	KJH	D
Dichloroprop	70.4 U	U	ug/kg	70.4	28.4	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:01	KJH	D
Dinoseb	176 U	U	ug/kg	176	35.7	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:01	KJH	D
4-Nitrophenol	70.4 U	U	ug/kg	70.4	24.2	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:01	KJH	D
2,4,5-T	70.4 U	U	ug/kg	70.4	29.4	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:01	KJH	D
2,4,5-TP	70.4 U	U	ug/kg	70.4	32.6	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:01	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	65.5		%	36 - 113		SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:01	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	D
Hexavalent Chromium	2.1 U	U	mg/kg	2.1	0.41	SW846 7196A	9/22/16 11:30	AHI	9/22/16 18:00	AHI	D
Ignitability	Not Ignitable	3				SW846 1030			9/23/16 09:30	AXC	D
Moisture	7.1		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
Sulfide, Reactive	5.6J	J	ppm	6.2	1.2	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	D
Total Solids	92.9		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
METALS											
Aluminum, Total	5110		mg/kg	9.3	3.1	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Antimony, Total	1.9 U	U	mg/kg	1.9	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Arsenic, Total	1.3J	J	mg/kg	1.9	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Barium, Total	12.2		mg/kg	0.93	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Beryllium, Total	0.93 U	U	mg/kg	0.93	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Cadmium, Total	0.46 U	U	mg/kg	0.46	0.15	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Calcium, Total	533		mg/kg	9.3	3.1	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Chromium, Total	5.0		mg/kg	0.93	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Cobalt, Total	3.6		mg/kg	0.93	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Copper, Total	7.7		mg/kg	1.9	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Iron, Total	9620		mg/kg	9.3	3.1	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Lead, Total	2.9		mg/kg	1.9	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Magnesium, Total	1450		mg/kg	9.3	3.1	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Manganese, Total	188		mg/kg	0.93	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452005** Date Collected: 9/15/2016 13:45 Matrix: Solid

Sample ID: **SB-3(4-8ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Mercury, Total	0.049 U	U	mg/kg	0.049	0.016	SW846 7471B	9/20/16 12:30	MNP	9/20/16 14:24	MNP	D2
Nickel, Total	8.2		mg/kg	1.9	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Potassium, Total	429		mg/kg	46.4	15.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Selenium, Total	4.6 U	U	mg/kg	4.6	1.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Silver, Total	0.46 U	U	mg/kg	0.46	0.15	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Sodium, Total	20.5J	J	mg/kg	46.4	15.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Thallium, Total	2.8 U	U	mg/kg	2.8	0.93	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Vanadium, Total	10.6		mg/kg	0.93	0.31	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1
Zinc, Total	21.1		mg/kg	1.9	0.62	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:03	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452006** Date Collected: 9/15/2016 14:00 Matrix: Solid

Sample ID: **SB-3(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	12.5 U	U	ug/kg	12.5	5.7	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Acetonitrile	12.5 U	U	ug/kg	12.5	4.2	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Acrolein	62.4 U	U,1,2	ug/kg	62.4	8.2	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Acrylonitrile	12.5 U	U	ug/kg	12.5	3.4	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Benzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Benzyl Chloride	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Bromobenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Bromochloromethane	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Bromodichloromethane	2.5 U	U	ug/kg	2.5	0.89	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Bromoform	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Bromomethane	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
2-Butanone	12.5 U	U	ug/kg	12.5	4.0	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
tert-Butyl Alcohol	12.5 U	U	ug/kg	12.5	4.4	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
n-Butylbenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
tert-Butylbenzene	2.5 U	U	ug/kg	2.5	0.69	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
sec-Butylbenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Carbon Disulfide	2.5 U	U	ug/kg	2.5	0.79	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Carbon Tetrachloride	2.5 U	U	ug/kg	2.5	0.64	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Chlorobenzene	2.5 U	U	ug/kg	2.5	0.64	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Chlorodibromomethane	2.5 U	U	ug/kg	2.5	0.85	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Chloroethane	6.2 U	U	ug/kg	6.2	1.1	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Chloroform	2.5 U	U	ug/kg	2.5	0.66	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Chloromethane	2.5 U	U	ug/kg	2.5	0.69	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Chloroprene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
3-Chloro-1-propene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
o-Chlorotoluene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
p-Chlorotoluene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Cyclohexane	2.5 U	U	ug/kg	2.5	0.64	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,2-Dibromo-3-chloropropane	6.2 U	U	ug/kg	6.2	3.6	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,2-Dibromoethane	2.5 U	U	ug/kg	2.5	0.67	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Dibromomethane	2.5 U	U	ug/kg	2.5	0.90	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,2-Dichlorobenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,3-Dichlorobenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,4-Dichlorobenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Dichlorodifluoromethane	2.5 U	U	ug/kg	2.5	0.84	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,1-Dichloroethane	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452006** Date Collected: 9/15/2016 14:00 Matrix: Solid

Sample ID: **SB-3(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	1.8J	J	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,1-Dichloroethene	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
cis-1,2-Dichloroethene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
trans-1,2-Dichloroethene	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,3-Dichloropropane	2.5 U	U	ug/kg	2.5	1.0	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
2,2-Dichloropropane	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,2-Dichloropropane	2.5 U	U	ug/kg	2.5	0.75	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,1-Dichloropropene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
cis-1,3-Dichloropropene	2.5 U	U	ug/kg	2.5	0.69	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
trans-1,3-Dichloropropene	2.5 U	U	ug/kg	2.5	0.72	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,4-Dioxane	93.6 U	U	ug/kg	93.6	22.2	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Ethyl Methacrylate	2.5 U	U	ug/kg	2.5	0.64	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Ethyl Acetate	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Ethylbenzene	2.5 U	U	ug/kg	2.5	0.85	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Freon 113	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
2-Hexanone	12.5 U	U	ug/kg	12.5	3.5	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Isobutyl alcohol	62.4 U	U	ug/kg	62.4	9.7	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Isopropylbenzene	2.5 U	U	ug/kg	2.5	0.76	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
p-Isopropyltoluene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Methacrylonitrile	2.5 U	U	ug/kg	2.5	0.67	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Methyl methacrylate	6.2 U	U	ug/kg	6.2	2.9	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Methyl acetate	2.5 U	U	ug/kg	2.5	0.74	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Methyl cyclohexane	2.5 U	U	ug/kg	2.5	0.70	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Methyl t-Butyl Ether	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
4-Methyl-2-Pentanone(MIBK)	12.5 U	U	ug/kg	12.5	4.7	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Methylene Chloride	2.5 U	U	ug/kg	2.5	0.97	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Naphthalene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Propionitrile	12.5 U	U	ug/kg	12.5	5.2	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
n-Propylbenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Styrene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,1,1,2-Tetrachloroethane	2.5 U	U	ug/kg	2.5	0.80	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,1,2,2-Tetrachloroethane	2.5 U	U	ug/kg	2.5	0.70	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Tetrachloroethene	2.5 U	U	ug/kg	2.5	0.75	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Toluene	2.5 U	U	ug/kg	2.5	0.84	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Total Xylenes	7.5 U	U	ug/kg	7.5	1.7	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,2,4-Trichlorobenzene	6.2 U	U	ug/kg	6.2	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,1,1-Trichloroethane	2.5 U	U	ug/kg	2.5	0.77	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,1,2-Trichloroethane	2.5 U	U	ug/kg	2.5	0.70	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452006** Date Collected: 9/15/2016 14:00 Matrix: Solid

Sample ID: **SB-3(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Trichlorofluoromethane	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,2,3-Trichloropropane	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,2,4-Trimethylbenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
1,3,5-Trimethylbenzene	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Vinyl Acetate	2.5 U	U	ug/kg	2.5	0.65	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Vinyl Chloride	2.5 U	U	ug/kg	2.5	0.62	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
o-Xylene	2.5 U	U	ug/kg	2.5	0.72	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
mp-Xylene	5.0 U	U	ug/kg	5.0	1.0	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	70.2		%	56 - 124	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
4-Bromofluorobenzene (S)	86		%	51 - 128	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Dibromofluoromethane (S)	78.8		%	62 - 123	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
Toluene-d8 (S)	83.3		%	59 - 131	SW846 8260C	9/19/16 16:04	TMP	9/21/16 20:01	TMP	B
SEMIVOLATILES										
Acenaphthene	52.0 U	U	ug/kg	52.0	6.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Acenaphthylene	52.0 U	U	ug/kg	52.0	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Acetophenone	104 U	U	ug/kg	104	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Aniline	208 U	U	ug/kg	208	15.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Anthracene	52.0 U	U	ug/kg	52.0	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Atrazine	104 U	U	ug/kg	104	11.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Benzaldehyde	208 U	U	ug/kg	208	17.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Benzidine	208 U	U	ug/kg	208	33.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Benzo(a)anthracene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Benzo(a)pyrene	52.0 U	U	ug/kg	52.0	4.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Benzo(b)fluoranthene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Benzo(g,h,i)perylene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Benzoic acid	562 U	U	ug/kg	562	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Benzo(k)fluoranthene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Benzyl Alcohol	104 U	U	ug/kg	104	18.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Biphenyl	104 U	U	ug/kg	104	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
4-Bromophenyl-phenylether	104 U	U	ug/kg	104	9.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Butylbenzylphthalate	104 U	U	ug/kg	104	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Caprolactam	208 U	U	ug/kg	208	18.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Carbazole	104 U	U	ug/kg	104	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
4-Chloro-3-methylphenol	208 U	U	ug/kg	208	10.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
4-Chloroaniline	208 U	U	ug/kg	208	12.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452006** Date Collected: 9/15/2016 14:00 Matrix: Solid

Sample ID: **SB-3(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	104 U	U	ug/kg	104	9.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
bis(2-Chloroethyl)ether	104 U	U	ug/kg	104	13.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
bis(2-Chloroisopropyl)ether	104 U	U	ug/kg	104	15.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2-Chloronaphthalene	104 U	U	ug/kg	104	6.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2-Chlorophenol	208 U	U	ug/kg	208	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
4-Chlorophenyl-phenylether	104 U	U	ug/kg	104	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Chrysene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
mp-Cresol	208 U	U	ug/kg	208	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
o-Cresol	208 U	U	ug/kg	208	11.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Di-n-Butylphthalate	104 U	U	ug/kg	104	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Di-n-Octylphthalate	104 U	U	ug/kg	104	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Dibenzo(a,h)anthracene	52.0 U	U	ug/kg	52.0	6.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Dibenzofuran	104 U	U	ug/kg	104	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
1,2-Dichlorobenzene	104 U	U	ug/kg	104	9.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
1,3-Dichlorobenzene	104 U	U	ug/kg	104	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
1,4-Dichlorobenzene	104 U	U	ug/kg	104	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
3,3-Dichlorobenzidine	208 U	U	ug/kg	208	39.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2,4-Dichlorophenol	208 U	U	ug/kg	208	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2,6-Dichlorophenol	208 U	U	ug/kg	208	11.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Diethylphthalate	104 U	U	ug/kg	104	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Dimethoate	208 U	U	ug/kg	208	11.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2,4-Dimethylphenol	208 U	U	ug/kg	208	15.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Dimethylphthalate	104 U	U	ug/kg	104	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
1,2-Dinitrobenzene	104 U	U	ug/kg	104	19.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
1,4-Dinitrobenzene	104 U	U	ug/kg	104	14.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2,4-Dinitrophenol	208 U	U	ug/kg	208	41.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2,4-Dinitrotoluene	104 U	U	ug/kg	104	9.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2,6-Dinitrotoluene	104 U	U	ug/kg	104	12.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Diphenylamine	104 U	U	ug/kg	104	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
1,2-Diphenylhydrazine	104 U	U	ug/kg	104	9.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
bis(2-Ethylhexyl)phthalate	104 U	U	ug/kg	104	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Fluoranthene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Fluorene	52.0 U	U	ug/kg	52.0	6.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Hexachlorobenzene	104 U	U	ug/kg	104	11.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Hexachlorobutadiene	104 U	U	ug/kg	104	10.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Hexachlorocyclopentadiene	208 U	U	ug/kg	208	11.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Hexachloroethane	104 U	U	ug/kg	104	9.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Indeno(1,2,3-cd)pyrene	52.0 U	U	ug/kg	52.0	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452006** Date Collected: 9/15/2016 14:00 Matrix: Solid

Sample ID: **SB-3(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	104 U	U	ug/kg	104	6.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2-Methyl-4,6-dinitrophenol	208 U	U	ug/kg	208	27.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2-Methylnaphthalene	104 U	U	ug/kg	104	5.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2-Naphthylamine	208 U	U	ug/kg	208	16.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Naphthalene	52.0 U	U	ug/kg	52.0	6.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2-Nitroaniline	208 U	U	ug/kg	208	12.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
3-Nitroaniline	208 U	U	ug/kg	208	20.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
4-Nitroaniline	208 U	U	ug/kg	208	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Nitrobenzene	104 U	U	ug/kg	104	12.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2-Nitrophenol	208 U	U	ug/kg	208	11.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
4-Nitrophenol	208 U	U	ug/kg	208	14.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
N-Nitrosodi-n-butylamine	104 U	U	ug/kg	104	11.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
N-Nitrosodiethylamine	104 U	U	ug/kg	104	13.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
N-Nitrosodimethylamine	104 U	U	ug/kg	104	15.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
N-Nitroso-di-n-propylamine	104 U	U	ug/kg	104	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
N-Nitrosodiphenylamine	104 U	U	ug/kg	104	8.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
N-Nitrosopyrrolidine	104 U	U	ug/kg	104	12.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Pentachlorobenzene	104 U	U	ug/kg	104	11.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Pentachlorophenol	208 U	U	ug/kg	208	27.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Phenanthrene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Phenol	208 U	U	ug/kg	208	10.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Pyrene	52.0 U	U	ug/kg	52.0	5.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Pyridine	208 U	U	ug/kg	208	18.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Resorcinol	104 U	U	ug/kg	104	14.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
1,2,4,5-Tetrachlorobenzene	104 U	U	ug/kg	104	7.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2,3,4,6-Tetrachlorophenol	208 U	U	ug/kg	208	12.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
1,2,4-Trichlorobenzene	104 U	U	ug/kg	104	6.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2,4,5-Trichlorophenol	208 U	U	ug/kg	208	12.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2,4,6-Trichlorophenol	208 U	U	ug/kg	208	12.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	88.9		%	19 - 132	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2-Fluorobiphenyl (S)	79.3		%	40 - 110	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
2-Fluorophenol (S)	79.7		%	26 - 116	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Nitrobenzene-d5 (S)	76.4		%	38 - 112	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Phenol-d5 (S)	78.5		%	35 - 111	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D
Terphenyl-d14 (S)	85		%	45 - 126	SW846 8270D	9/19/16 10:10	JTH	9/19/16 22:47	GEC	D

PCBs

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452006** Date Collected: 9/15/2016 14:00 Matrix: Solid

Sample ID: **SB-3(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	0.034 U	U	mg/kg	0.034	0.0031	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:21	EGO	D
Aroclor-1016	0.034 U	U	mg/kg	0.034	0.0062	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:21	EGO	D
Aroclor-1221	0.034 U	U	mg/kg	0.034	0.0031	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:21	EGO	D
Aroclor-1232	0.034 U	U	mg/kg	0.034	0.0062	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:21	EGO	D
Aroclor-1242	0.034 U	U	mg/kg	0.034	0.0092	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:21	EGO	D
Aroclor-1248	0.034 U	U	mg/kg	0.034	0.0062	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:21	EGO	D
Aroclor-1254	0.034 U	U	mg/kg	0.034	0.0062	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:21	EGO	D
Aroclor-1260	0.034 U	U	mg/kg	0.034	0.0062	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:21	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	79.1		%	49 - 115		SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:21	EGO	D
Tetrachloro-m-xylene (S)	93.8		%	27 - 137		SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:21	EGO	D
PESTICIDES											
Aldrin	1.7 U	U	ug/kg	1.7	0.56	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
alpha-BHC	1.7 U	U	ug/kg	1.7	0.15	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
beta-BHC	1.7 U	U	ug/kg	1.7	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
delta-BHC	1.7 U	U	ug/kg	1.7	0.13	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
gamma-BHC	1.7 U	U	ug/kg	1.7	0.14	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
alpha-Chlordane	1.7 U	U	ug/kg	1.7	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
gamma-Chlordane	1.7 U	U	ug/kg	1.7	0.30	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
4,4'-DDD	3.4 U	U	ug/kg	3.4	0.28	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
4,4'-DDE	3.4 U	U	ug/kg	3.4	0.46	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
4,4'-DDT	3.4 U	U	ug/kg	3.4	0.39	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Dieldrin	3.4 U	U	ug/kg	3.4	0.39	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Endosulfan I	1.7 U	U	ug/kg	1.7	0.22	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Endosulfan II	3.4 U	U	ug/kg	3.4	0.71	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Endosulfan Sulfate	3.4 U	U	ug/kg	3.4	0.23	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Endrin	3.4 U	U	ug/kg	3.4	0.25	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Endrin Aldehyde	3.4 U	U	ug/kg	3.4	0.37	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Endrin Ketone	3.4 U	U	ug/kg	3.4	0.47	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Heptachlor	1.7 U	U	ug/kg	1.7	0.17	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Heptachlor Epoxide	1.7 U	U	ug/kg	1.7	0.17	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Methoxychlor	3.4 U	U	ug/kg	3.4	0.45	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Mirex	3.4 U	U	ug/kg	3.4	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Toxaphene	35.9 U	U	ug/kg	35.9	6.0	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	74.2		%	30 - 135		SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452006** Date Collected: 9/15/2016 14:00 Matrix: Solid

Sample ID: **SB-3(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	60.9		%	30 - 111		SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:03	RWS	D
HERBICIDES											
2,4-D	68.8 U	U	ug/kg	68.8	26.7	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:39	KJH	D
2,4-DB	68.8 U	U	ug/kg	68.8	37.0	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:39	KJH	D
Dalapon	68.8 U	U	ug/kg	68.8	17.4	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:39	KJH	D
Dicamba	68.8 U	U	ug/kg	68.8	24.6	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:39	KJH	D
Dichloroprop	68.8 U	U	ug/kg	68.8	27.7	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:39	KJH	D
Dinoseb	171 U	U	ug/kg	171	34.9	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:39	KJH	D
4-Nitrophenol	68.8 U	U	ug/kg	68.8	23.6	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:39	KJH	D
2,4,5-T	68.8 U	U	ug/kg	68.8	28.7	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:39	KJH	D
2,4,5-TP	68.8 U	U	ug/kg	68.8	31.8	SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:39	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	78		%	36 - 113		SW846 8151A	9/19/16 01:55	VLM	9/20/16 01:39	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	D
Hexavalent Chromium	2.1 U	U	mg/kg	2.1	0.41	SW846 7196A	9/22/16 11:30	AHI	9/22/16 18:00	AHI	D
Ignitability	Not Ignitable	3				SW846 1030			9/23/16 09:30	AXC	D
Moisture	5.1		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
Sulfide, Reactive	5.6J	J	ppm	6.2	1.2	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	D
Total Solids	94.9		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
METALS											
Aluminum, Total	4270		mg/kg	9.9	3.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Antimony, Total	2.0 U	U	mg/kg	2.0	0.66	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Arsenic, Total	0.83J	J	mg/kg	2.0	0.66	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Barium, Total	12.0		mg/kg	0.99	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Beryllium, Total	0.99 U	U	mg/kg	0.99	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Cadmium, Total	0.50 U	U	mg/kg	0.50	0.17	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Calcium, Total	764		mg/kg	9.9	3.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Chromium, Total	5.5		mg/kg	0.99	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Cobalt, Total	3.3		mg/kg	0.99	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Copper, Total	6.6		mg/kg	2.0	0.66	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Iron, Total	10800		mg/kg	9.9	3.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Lead, Total	2.5		mg/kg	2.0	0.66	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Magnesium, Total	1320		mg/kg	9.9	3.3	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Manganese, Total	183		mg/kg	0.99	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452006** Date Collected: 9/15/2016 14:00 Matrix: Solid

Sample ID: **SB-3(8-12ft)** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Mercury, Total	0.046 U	U	mg/kg	0.046	0.015	SW846 7471B	9/20/16 12:30	MNP	9/20/16 14:25	MNP	D2
Nickel, Total	7.4		mg/kg	2.0	0.66	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Potassium, Total	627		mg/kg	49.7	16.6	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Selenium, Total	5.0 U	U	mg/kg	5.0	1.7	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Silver, Total	0.50 U	U	mg/kg	0.50	0.17	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Sodium, Total	30.8J	J	mg/kg	49.7	16.6	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Thallium, Total	3.0 U	U	mg/kg	3.0	0.99	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Vanadium, Total	13.3		mg/kg	0.99	0.33	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1
Zinc, Total	19.8		mg/kg	2.0	0.66	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:07	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452007** Date Collected: 9/15/2016 00:00 Matrix: Solid

Sample ID: **DUP2-SOIL** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.9J	J	ug/kg	11.6	5.3	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Acetonitrile	11.6 U	U	ug/kg	11.6	3.9	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Acrolein	57.8 U	U,1,2	ug/kg	57.8	7.6	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Acrylonitrile	11.6 U	U	ug/kg	11.6	3.1	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Benzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Benzyl Chloride	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Bromobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Bromochloromethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Bromodichloromethane	2.3 U	U	ug/kg	2.3	0.82	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Bromoform	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Bromomethane	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
2-Butanone	11.6 U	U	ug/kg	11.6	3.7	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
tert-Butyl Alcohol	11.6 U	U	ug/kg	11.6	4.0	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
n-Butylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
tert-Butylbenzene	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
sec-Butylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Carbon Disulfide	2.3 U	U	ug/kg	2.3	0.73	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Carbon Tetrachloride	10.1		ug/kg	2.3	0.59	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Chlorobenzene	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Chlorodibromomethane	2.3 U	U	ug/kg	2.3	0.79	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Chloroethane	5.8 U	U	ug/kg	5.8	0.98	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Chloroform	4.4		ug/kg	2.3	0.61	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Chloromethane	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Chloroprene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
3-Chloro-1-propene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
o-Chlorotoluene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
p-Chlorotoluene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Cyclohexane	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,2-Dibromo-3-chloropropane	5.8 U	U	ug/kg	5.8	3.4	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,2-Dibromoethane	2.3 U	U	ug/kg	2.3	0.62	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Dibromomethane	2.3 U	U	ug/kg	2.3	0.83	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,2-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,3-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,4-Dichlorobenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Dichlorodifluoromethane	2.3 U	U	ug/kg	2.3	0.77	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,1-Dichloroethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452007** Date Collected: 9/15/2016 00:00 Matrix: Solid

Sample ID: **DUP2-SOIL** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane	1.7J	J	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,1-Dichloroethene	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
cis-1,2-Dichloroethene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
trans-1,2-Dichloroethene	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,3-Dichloropropane	2.3 U	U	ug/kg	2.3	0.96	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
2,2-Dichloropropane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,2-Dichloropropane	2.3 U	U	ug/kg	2.3	0.69	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,1-Dichloropropene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
cis-1,3-Dichloropropene	2.3 U	U	ug/kg	2.3	0.64	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
trans-1,3-Dichloropropene	2.3 U	U	ug/kg	2.3	0.67	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,4-Dioxane	86.7 U	U	ug/kg	86.7	20.6	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Ethyl Methacrylate	2.3 U	U	ug/kg	2.3	0.59	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Ethyl Acetate	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Ethylbenzene	2.3 U	U	ug/kg	2.3	0.79	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Freon 113	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
2-Hexanone	11.6 U	U	ug/kg	11.6	3.2	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Isobutyl alcohol	57.8 U	U	ug/kg	57.8	9.0	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Isopropylbenzene	2.3 U	U	ug/kg	2.3	0.70	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
p-Isopropyltoluene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Methacrylonitrile	2.3 U	U	ug/kg	2.3	0.62	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Methyl methacrylate	5.8 U	U	ug/kg	5.8	2.7	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Methyl acetate	2.3 U	U	ug/kg	2.3	0.68	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Methyl cyclohexane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Methyl t-Butyl Ether	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
4-Methyl-2-Pentanone(MIBK)	11.6 U	U	ug/kg	11.6	4.4	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Methylene Chloride	1.3J	J	ug/kg	2.3	0.90	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Naphthalene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Propionitrile	11.6 U	U	ug/kg	11.6	4.9	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
n-Propylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Styrene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,1,1,2-Tetrachloroethane	2.3 U	U	ug/kg	2.3	0.74	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,1,2,2-Tetrachloroethane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Tetrachloroethene	2.3 U	U	ug/kg	2.3	0.69	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Toluene	2.3 U	U	ug/kg	2.3	0.77	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Total Xylenes	6.9 U	U	ug/kg	6.9	1.6	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,2,4-Trichlorobenzene	5.8 U	U	ug/kg	5.8	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,1,1-Trichloroethane	2.3 U	U	ug/kg	2.3	0.72	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,1,2-Trichloroethane	2.3 U	U	ug/kg	2.3	0.65	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452007** Date Collected: 9/15/2016 00:00 Matrix: Solid

Sample ID: **DUP2-SOIL** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Trichloroethene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Trichlorofluoromethane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,2,3-Trichloropropane	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,2,4-Trimethylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
1,3,5-Trimethylbenzene	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Vinyl Acetate	2.3 U	U	ug/kg	2.3	0.60	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Vinyl Chloride	2.3 U	U	ug/kg	2.3	0.58	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
o-Xylene	2.3 U	U	ug/kg	2.3	0.67	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
mp-Xylene	4.6 U	U	ug/kg	4.6	0.96	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	71.5		%	56 - 124	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
4-Bromofluorobenzene (S)	82.9		%	51 - 128	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Dibromofluoromethane (S)	78.4		%	62 - 123	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
Toluene-d8 (S)	82		%	59 - 131	SW846 8260C	9/19/16 16:07	TMP	9/21/16 20:24	TMP	B
SEMIVOLATILES										
Acenaphthene	54.3 U	U	ug/kg	54.3	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Acenaphthylene	54.3 U	U	ug/kg	54.3	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Acetophenone	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Aniline	217 U	U	ug/kg	217	16.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Anthracene	54.3 U	U	ug/kg	54.3	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Atrazine	109 U	U	ug/kg	109	11.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Benzaldehyde	217 U	U	ug/kg	217	18.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Benzidine	217 U	U	ug/kg	217	34.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Benzo(a)anthracene	9.9J	J	ug/kg	54.3	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Benzo(a)pyrene	54.3 U	U	ug/kg	54.3	4.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Benzo(b)fluoranthene	9.3J	J	ug/kg	54.3	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Benzo(g,h,i)perylene	54.3 U	U	ug/kg	54.3	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Benzoic acid	69.9J	J	ug/kg	586	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Benzo(k)fluoranthene	54.3 U	U	ug/kg	54.3	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Benzyl Alcohol	109 U	U	ug/kg	109	19.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Biphenyl	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
4-Bromophenyl-phenylether	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Butylbenzylphthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Caprolactam	217 U	U	ug/kg	217	19.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Carbazole	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
4-Chloro-3-methylphenol	217 U	U	ug/kg	217	10.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
4-Chloroaniline	217 U	U	ug/kg	217	13.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452007** Date Collected: 9/15/2016 00:00 Matrix: Solid

Sample ID: **DUP2-SOIL** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
bis(2-Chloroethoxy)methane	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
bis(2-Chloroethyl)ether	109 U	U	ug/kg	109	14.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
bis(2-Chloroisopropyl)ether	109 U	U	ug/kg	109	16.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2-Chloronaphthalene	109 U	U	ug/kg	109	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2-Chlorophenol	217 U	U	ug/kg	217	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
4-Chlorophenyl-phenylether	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Chrysene	9.0J	J	ug/kg	54.3	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
mp-Cresol	217 U	U	ug/kg	217	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
o-Cresol	217 U	U	ug/kg	217	11.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Di-n-Butylphthalate	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Di-n-Octylphthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Dibenzo(a,h)anthracene	54.3 U	U	ug/kg	54.3	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Dibenzofuran	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
1,2-Dichlorobenzene	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
1,3-Dichlorobenzene	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
1,4-Dichlorobenzene	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
3,3-Dichlorobenzidine	217 U	U	ug/kg	217	41.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2,4-Dichlorophenol	217 U	U	ug/kg	217	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2,6-Dichlorophenol	217 U	U	ug/kg	217	11.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Diethylphthalate	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Dimethoate	217 U	U	ug/kg	217	11.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2,4-Dimethylphenol	217 U	U	ug/kg	217	16.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Dimethylphthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
1,2-Dinitrobenzene	109 U	U	ug/kg	109	20.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
1,4-Dinitrobenzene	109 U	U	ug/kg	109	15.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2,4-Dinitrophenol	217 U	U	ug/kg	217	43.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2,4-Dinitrotoluene	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2,6-Dinitrotoluene	109 U	U	ug/kg	109	13.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Diphenylamine	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
1,2-Diphenylhydrazine	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
bis(2-Ethylhexyl)phthalate	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Fluoranthene	54.3 U	U	ug/kg	54.3	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Fluorene	54.3 U	U	ug/kg	54.3	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Hexachlorobenzene	109 U	U	ug/kg	109	11.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Hexachlorobutadiene	109 U	U	ug/kg	109	10.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Hexachlorocyclopentadiene	217 U	U	ug/kg	217	11.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Hexachloroethane	109 U	U	ug/kg	109	9.8	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Indeno(1,2,3-cd)pyrene	54.3 U	U	ug/kg	54.3	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452007** Date Collected: 9/15/2016 00:00 Matrix: Solid

Sample ID: **DUP2-SOIL** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	109 U	U	ug/kg	109	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2-Methyl-4,6-dinitrophenol	217 U	U	ug/kg	217	28.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2-Methylnaphthalene	109 U	U	ug/kg	109	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2-Naphthylamine	217 U	U	ug/kg	217	17.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Naphthalene	54.3 U	U	ug/kg	54.3	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2-Nitroaniline	217 U	U	ug/kg	217	13.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
3-Nitroaniline	217 U	U	ug/kg	217	21.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
4-Nitroaniline	217 U	U	ug/kg	217	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Nitrobenzene	109 U	U	ug/kg	109	13.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2-Nitrophenol	217 U	U	ug/kg	217	11.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
4-Nitrophenol	217 U	U	ug/kg	217	15.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
N-Nitrosodi-n-butylamine	109 U	U	ug/kg	109	11.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
N-Nitrosodiethylamine	109 U	U	ug/kg	109	14.1	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
N-Nitrosodimethylamine	109 U	U	ug/kg	109	16.3	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
N-Nitroso-di-n-propylamine	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
N-Nitrosodiphenylamine	109 U	U	ug/kg	109	8.7	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
N-Nitrosopyrrolidine	109 U	U	ug/kg	109	13.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Pentachlorobenzene	109 U	U	ug/kg	109	11.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Pentachlorophenol	217 U	U	ug/kg	217	28.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Phenanthrene	54.3 U	U	ug/kg	54.3	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Phenol	217 U	U	ug/kg	217	10.9	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Pyrene	54.3 U	U	ug/kg	54.3	5.4	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Pyridine	217 U	U	ug/kg	217	19.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Resorcinol	109 U	U	ug/kg	109	15.2	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
1,2,4,5-Tetrachlorobenzene	109 U	U	ug/kg	109	7.6	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2,3,4,6-Tetrachlorophenol	217 U	U	ug/kg	217	13.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
1,2,4-Trichlorobenzene	109 U	U	ug/kg	109	6.5	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2,4,5-Trichlorophenol	217 U	U	ug/kg	217	13.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2,4,6-Trichlorophenol	217 U	U	ug/kg	217	13.0	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	88		%	19 - 132	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2-Fluorobiphenyl (S)	79.9		%	40 - 110	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
2-Fluorophenol (S)	75.9		%	26 - 116	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Nitrobenzene-d5 (S)	77.5		%	38 - 112	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Phenol-d5 (S)	75.9		%	35 - 111	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D
Terphenyl-d14 (S)	81.8		%	45 - 126	SW846 8270D	9/19/16 10:10	JTH	9/19/16 23:14	GEC	D

PCBs

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452007** Date Collected: 9/15/2016 00:00 Matrix: Solid

Sample ID: **DUP2-SOIL** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Total Polychlorinated Biphenyl	0.034 U	U	mg/kg	0.034	0.0031	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:32	EGO	D
Aroclor-1016	0.034 U	U	mg/kg	0.034	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:32	EGO	D
Aroclor-1221	0.034 U	U	mg/kg	0.034	0.0031	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:32	EGO	D
Aroclor-1232	0.034 U	U	mg/kg	0.034	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:32	EGO	D
Aroclor-1242	0.034 U	U	mg/kg	0.034	0.0094	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:32	EGO	D
Aroclor-1248	0.034 U	U	mg/kg	0.034	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:32	EGO	D
Aroclor-1254	0.034 U	U	mg/kg	0.034	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:32	EGO	D
Aroclor-1260	0.034 U	U	mg/kg	0.034	0.0063	SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:32	EGO	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	80.8		%	49 - 115		SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:32	EGO	D
Tetrachloro-m-xylene (S)	84.8		%	27 - 137		SW846 8082A	9/19/16 01:15	CMA	9/19/16 15:32	EGO	D
PESTICIDES											
Aldrin	1.8 U	U	ug/kg	1.8	0.57	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
alpha-BHC	1.8 U	U	ug/kg	1.8	0.16	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
beta-BHC	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
delta-BHC	1.8 U	U	ug/kg	1.8	0.14	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
gamma-BHC	1.8 U	U	ug/kg	1.8	0.15	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
alpha-Chlordane	1.8 U	U	ug/kg	1.8	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
gamma-Chlordane	1.8 U	U	ug/kg	1.8	0.30	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
4,4'-DDD	3.4 U	U	ug/kg	3.4	0.28	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
4,4'-DDE	0.57J	J	ug/kg	3.4	0.47	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
4,4'-DDT	1.1J	J	ug/kg	3.4	0.40	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Dieldrin	3.4 U	U	ug/kg	3.4	0.40	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Endosulfan I	1.8 U	U	ug/kg	1.8	0.22	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Endosulfan II	3.4 U	U	ug/kg	3.4	0.72	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Endosulfan Sulfate	3.4 U	U	ug/kg	3.4	0.23	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Endrin	3.4 U	U	ug/kg	3.4	0.25	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Endrin Aldehyde	3.4 U	U	ug/kg	3.4	0.38	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Endrin Ketone	3.4 U	U	ug/kg	3.4	0.48	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Heptachlor	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Heptachlor Epoxide	1.8 U	U	ug/kg	1.8	0.18	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Methoxychlor	3.4 U	U	ug/kg	3.4	0.46	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Mirex	3.4 U	U	ug/kg	3.4	0.19	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Toxaphene	36.6 U	U	ug/kg	36.6	6.1	SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	62.7		%	30 - 135		SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452007** Date Collected: 9/15/2016 00:00 Matrix: Solid

Sample ID: **DUP2-SOIL** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	53.3		%	30 - 111		SW846 8081B	9/19/16 01:15	CMA	9/19/16 21:19	RWS	D
HERBICIDES											
2,4-D	72.5 U	U	ug/kg	72.5	28.1	SW846 8151A	9/19/16 01:55	VLM	9/20/16 02:16	KJH	D
2,4-DB	72.5 U	U	ug/kg	72.5	39.0	SW846 8151A	9/19/16 01:55	VLM	9/20/16 02:16	KJH	D
Dalapon	72.5 U	U	ug/kg	72.5	18.4	SW846 8151A	9/19/16 01:55	VLM	9/20/16 02:16	KJH	D
Dicamba	72.5 U	U	ug/kg	72.5	26.0	SW846 8151A	9/19/16 01:55	VLM	9/20/16 02:16	KJH	D
Dichloroprop	72.5 U	U	ug/kg	72.5	29.2	SW846 8151A	9/19/16 01:55	VLM	9/20/16 02:16	KJH	D
Dinoseb	181 U	U	ug/kg	181	36.8	SW846 8151A	9/19/16 01:55	VLM	9/20/16 02:16	KJH	D
4-Nitrophenol	72.5 U	U	ug/kg	72.5	24.9	SW846 8151A	9/19/16 01:55	VLM	9/20/16 02:16	KJH	D
2,4,5-T	72.5 U	U	ug/kg	72.5	30.3	SW846 8151A	9/19/16 01:55	VLM	9/20/16 02:16	KJH	D
2,4,5-TP	72.5 U	U	ug/kg	72.5	33.6	SW846 8151A	9/19/16 01:55	VLM	9/20/16 02:16	KJH	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	63.5		%	36 - 113		SW846 8151A	9/19/16 01:55	VLM	9/20/16 02:16	KJH	D
WET CHEMISTRY											
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	D
Hexavalent Chromium	2.1 U	U	mg/kg	2.1	0.41	SW846 7196A	9/22/16 11:30	AHI	9/22/16 18:00	AHI	D
Ignitability	Not Ignitable	3				SW846 1030			9/23/16 09:30	AXC	D
Moisture	7.9		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
Sulfide, Reactive	8.8		ppm	6.2	1.2	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	D
Total Solids	92.1		%	0.1	0.01	S2540G-11			9/19/16 10:37	VKB	
METALS											
Aluminum, Total	8830		mg/kg	10.4	3.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Antimony, Total	2.1 U	U	mg/kg	2.1	0.70	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Arsenic, Total	1.7J	J	mg/kg	2.1	0.70	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Barium, Total	23.5		mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Beryllium, Total	1.0 U	U	mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Cadmium, Total	0.52 U	U	mg/kg	0.52	0.17	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Calcium, Total	462		mg/kg	10.4	3.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Chromium, Total	8.7		mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Cobalt, Total	3.5		mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Copper, Total	8.7		mg/kg	2.1	0.70	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Iron, Total	12100		mg/kg	10.4	3.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Lead, Total	4.3		mg/kg	2.1	0.70	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Magnesium, Total	1590		mg/kg	10.4	3.5	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Manganese, Total	256		mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

Lab ID: **2175452007** Date Collected: 9/15/2016 00:00 Matrix: Solid

Sample ID: **DUP2-SOIL** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Mercury, Total	0.051 U	U	mg/kg	0.051	0.016	SW846 7471B	9/20/16 12:30	MNP	9/20/16 14:28	MNP	D2
Nickel, Total	8.8		mg/kg	2.1	0.70	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Potassium, Total	1120		mg/kg	52.2	17.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Selenium, Total	5.2 U	U	mg/kg	5.2	1.7	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Silver, Total	0.52 U	U	mg/kg	0.52	0.17	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Sodium, Total	37.5J	J	mg/kg	52.2	17.4	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Thallium, Total	3.1 U	U	mg/kg	3.1	1.0	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Vanadium, Total	18.6		mg/kg	1.0	0.35	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1
Zinc, Total	30.9		mg/kg	2.1	0.70	SW846 6010C	9/19/16 12:00	JPS	9/22/16 18:18	TSS	D1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2175452001	1	SB-2(0-4ft)	SW846 8260C	Acrolein
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 6.71 and the control limits were 18 to 139.				
2175452001	2	SB-2(0-4ft)	SW846 8260C	Acrolein
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 16 and the control limits were 18 to 139.				
2175452001	3	SB-2(0-4ft)	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175452002	1	SB-2(4-8ft)	SW846 8260C	Acrolein
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 6.71 and the control limits were 18 to 139.				
2175452002	2	SB-2(4-8ft)	SW846 8260C	Acrolein
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 16 and the control limits were 18 to 139.				
2175452002	3	SB-2(4-8ft)	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175452003	1	SB-2(8-12ft)	SW846 8260C	Acrolein
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 6.71 and the control limits were 18 to 139.				
2175452003	2	SB-2(8-12ft)	SW846 8260C	Acrolein
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 16 and the control limits were 18 to 139.				
2175452003	3	SB-2(8-12ft)	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175452004	1	SB-3(0-4ft)	SW846 8260C	Acrolein
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 6.71 and the control limits were 18 to 139.				
2175452004	2	SB-3(0-4ft)	SW846 8260C	Acrolein
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 16 and the control limits were 18 to 139.				
2175452004	3	SB-3(0-4ft)	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175452005	1	SB-3(4-8ft)	SW846 8260C	Acrolein
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 6.71 and the control limits were 18 to 139.				
2175452005	2	SB-3(4-8ft)	SW846 8260C	Acrolein
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 16 and the control limits were 18 to 139.				
2175452005	3	SB-3(4-8ft)	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175452006	1	SB-3(8-12ft)	SW846 8260C	Acrolein
The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 6.71 and the control limits were 18 to 139.				
2175452006	2	SB-3(8-12ft)	SW846 8260C	Acrolein
The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 16 and the control limits were 18 to 139.				
2175452006	3	SB-3(8-12ft)	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				

ANALYTICAL RESULTS

Workorder: 2175452 CBR022|2016-MALTA NY SITE-WAST

2175452007	1	DUP2-SOIL	SW846 8260C	Acrolein

The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 6.71 and the control limits were 18 to 139.

2175452007	2	DUP2-SOIL	SW846 8260C	Acrolein

The QC sample type LCSD for method SW846 8260C was outside the control limits for the analyte Acrolein. The % Recovery was reported as 16 and the control limits were 18 to 139.

2175452007	3	DUP2-SOIL	SW846 1030	Ignitability

According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)

Friday, September 23, 2016 5:05:34 PM
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Middletown, PA 17057
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F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1

Courier: Fedex
Tracking #: 784099535

* 2 1 7 5 4 5 2 *

Co. Name: CBRI Environmental & Infrastructure Inc.
Contact (Report to): Brian Neumann Phone: 518-785-2354
Address: 13 British American Blvd
Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area/154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] Y Brian.Neumann@CBI.com
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis
1 SB-2 (0ft-4ft)		9-15-16	0910	G	SO	3
2 SB-2 (4ft-8ft)			0930	G	SO	3
3 SB-2 (8ft-12ft)			0950	G	SO	3
4 SB-3 (0ft-4ft)			1330	G	SO	3
5 SB-3 (4ft-8ft)			1345	G	SO	3
6 SB-3 (8ft-12ft)			1400	G	SO	3
7 DUP2-SOIL		↓	—	G	SO	3
8						

***Container Type	Encore		CG			CG	CG		
***Container Size	5g		8oz			8oz	8oz		
*** Preservative	None		None			None	None		

ANALYSES/METHOD REQUESTED

VOCs 8260C	SVOCs 8270D	PCBs 8082A	Pesticides 8081B	Herbicides 8151A	Total Metals 6010C and 7470A	Hexavalent Chromium 7196A	Reactivity (7.3.3.2(N)) Ignitability (1030)
						1	1
						1	1
						1	1
						1	1
						1	1
						1	1
						1	1

(completed by Sample Receiving)
Performed In: Jmw
Cooler Temp: 2
Therm. ID: 352
No. of Coolers:
Notes:

Circle appropriate Y or N.	Container in good condition?	COC/Labels complete/accurate?	Received on ice?	(if present) Seals intact?	Custody seals Present?	Correct preservation?	Headspace/Volatiles?	Correct sample volume?	Correct containers?
N	N	N	N	N	N	N	Y	N	N
Y	Y	Y	Y	Y	Y	Y	N	Y	Y

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: See QAPP 9-16-16 1941

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Adam Norvelle/CBI	9-15-16	1730	2 FedEx	9/16/16	0909
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? ⇒ yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
⇒ Enter PWSID No.

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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September 27, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2175699**
Purchase Order:	**962015**	Workorder ID:	**CBR023|Rocket Fuel Area 154035**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Friday, September 16, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2175699001	EQ2 - Water	NY Non-Potable Water	9/14/2016 09:45	9/16/2016 09:09	Collected by Client
2175699002	GW-SB-1	NY Non-Potable Water	9/14/2016 13:10	9/16/2016 09:09	Collected by Client
2175699003	TB12	NY Non-Potable Water	9/16/2016 09:09	9/16/2016 09:09	Collected by Client

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

PROJECT SUMMARY

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Sample Comments

Lab ID: 2175699002 **Sample ID:** GW-SB-1 **Sample Type:** SAMPLE

A positive residual chlorine result was detected in the preservation check for the volatile organics analysis of this sample. This may be due to the presence of residual chlorine or another oxidizing agent.

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ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699001** Date Collected: 9/14/2016 09:45 Matrix: NY Non-Potable Water

Sample ID: **EQ2 - Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		9/21/16 12:54	DD	D
Acetonitrile	20.0 U	U	ug/L	20.0	2.4	SW846 8260C		9/21/16 12:54	DD	D
Acrolein	25.0 U	U	ug/L	25.0	3.0	SW846 8260C		9/21/16 12:54	DD	D
Acrylonitrile	5.0 U	U	ug/L	5.0	1.2	SW846 8260C		9/21/16 12:54	DD	D
tert-Amyl methyl ether	1.0 U	U	ug/L	1.0	0.20	SW846 8260C		9/21/16 12:54	DD	D
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 12:54	DD	D
Benzyl Chloride	5.0 U	U	ug/L	5.0	0.46	SW846 8260C		9/21/16 12:54	DD	D
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:54	DD	D
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 12:54	DD	D
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		9/21/16 12:54	DD	D
Bromomethane	1.0 U	U	ug/L	1.0	0.39	SW846 8260C		9/21/16 12:54	DD	D
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		9/21/16 12:54	DD	D
tert-Butyl Alcohol	10.0 U	U	ug/L	10.0	2.2	SW846 8260C		9/21/16 12:54	DD	D
n-Butylbenzene	2.0 U	U	ug/L	2.0	0.60	SW846 8260C		9/21/16 12:54	DD	D
tert-Butylbenzene	2.0 U	U	ug/L	2.0	0.44	SW846 8260C		9/21/16 12:54	DD	D
sec-Butylbenzene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 12:54	DD	D
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 12:54	DD	D
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 12:54	DD	D
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 12:54	DD	D
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 12:54	DD	D
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 12:54	DD	D
2-Chloroethylvinyl ether	2.0 U	U	ug/L	2.0	0.38	SW846 8260C		9/21/16 12:54	DD	D
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		9/21/16 12:54	DD	D
Chloromethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 12:54	DD	D
Chloroprene	1.0 U	U	ug/L	1.0	0.49	SW846 8260C		9/21/16 12:54	DD	D
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 12:54	DD	D
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		9/21/16 12:54	DD	D
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		9/21/16 12:54	DD	D
Dibromomethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 12:54	DD	D
trans-1,4-Dichloro-2-butene	3.0 U	U	ug/L	3.0	0.86	SW846 8260C		9/21/16 12:54	DD	D
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		9/21/16 12:54	DD	D
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 12:54	DD	D
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 12:54	DD	D
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 12:54	DD	D
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		9/21/16 12:54	DD	D
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:54	DD	D

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ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699001** Date Collected: 9/14/2016 09:45 Matrix: NY Non-Potable Water

Sample ID: **EQ2 - Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 12:54	DD	D
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:54	DD	D
trans-1,2-Dichloroethene	1.3		ug/L	1.0	0.26	SW846 8260C		9/21/16 12:54	DD	D
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 12:54	DD	D
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:54	DD	D
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 12:54	DD	D
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 12:54	DD	D
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 12:54	DD	D
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 12:54	DD	D
Diisopropyl ether	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 12:54	DD	D
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		9/21/16 12:54	DD	D
Ethyl Methacrylate	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:54	DD	D
Ethyl Acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 12:54	DD	D
Ethyl tert-butyl ether	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 12:54	DD	D
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 12:54	DD	D
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		9/21/16 12:54	DD	D
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		9/21/16 12:54	DD	D
Isobutyl alcohol	75.0 U	U	ug/L	75.0	12.5	SW846 8260C		9/21/16 12:54	DD	D
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		9/21/16 12:54	DD	D
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:54	DD	D
Methacrylonitrile	2.0 U	U	ug/L	2.0	0.55	SW846 8260C		9/21/16 12:54	DD	D
Methyl methacrylate	3.0 U	U	ug/L	3.0	0.50	SW846 8260C		9/21/16 12:54	DD	D
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 12:54	DD	D
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		9/21/16 12:54	DD	D
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 12:54	DD	D
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C		9/21/16 12:54	DD	D
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 12:54	DD	D
Naphthalene	2.0 U	U	ug/L	2.0	0.34	SW846 8260C		9/21/16 12:54	DD	D
Propionitrile	10.0 U	U	ug/L	10.0	2.6	SW846 8260C		9/21/16 12:54	DD	D
n-Propylbenzene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 12:54	DD	D
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 12:54	DD	D
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 12:54	DD	D
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 12:54	DD	D
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 12:54	DD	D
Toluene	0.36J	J	ug/L	1.0	0.23	SW846 8260C		9/21/16 12:54	DD	D
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C		9/21/16 12:54	DD	D
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C		9/21/16 12:54	DD	D
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C		9/21/16 12:54	DD	D

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699001** Date Collected: 9/14/2016 09:45 Matrix: NY Non-Potable Water

Sample ID: **EQ2 - Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			9/21/16 12:54	DD	D
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 12:54	DD	D
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 12:54	DD	D
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			9/21/16 12:54	DD	D
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	0.60	SW846 8260C			9/21/16 12:54	DD	D
1,2,4-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C			9/21/16 12:54	DD	D
1,3,5-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.20	SW846 8260C			9/21/16 12:54	DD	D
Vinyl Acetate	5.0 U	U	ug/L	5.0	1.6	SW846 8260C			9/21/16 12:54	DD	D
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			9/21/16 12:54	DD	D
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 12:54	DD	D
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			9/21/16 12:54	DD	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.6		%	62 - 133		SW846 8260C			9/21/16 12:54	DD	D
4-Bromofluorobenzene (S)	106		%	79 - 114		SW846 8260C			9/21/16 12:54	DD	D
Dibromofluoromethane (S)	100		%	78 - 116		SW846 8260C			9/21/16 12:54	DD	D
Toluene-d8 (S)	97.6		%	76 - 127		SW846 8260C			9/21/16 12:54	DD	D
SEMIVOLATILES											
Acenaphthene	1.5 U	U	ug/L	1.5	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Acenaphthylene	1.5 U	U	ug/L	1.5	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Acetophenone	0.53J	J	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Aniline	3.1 U	U,3	ug/L	3.1	0.27	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Anthracene	1.5 U	U	ug/L	1.5	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Atrazine	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Benzaldehyde	3.1 U	U	ug/L	3.1	0.27	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Benzidine	8.2 U	U	ug/L	8.2	3.2	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Benzo(a)anthracene	1.5 U	U	ug/L	1.5	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Benzo(a)pyrene	1.5 U	U	ug/L	1.5	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Benzo(b)fluoranthene	1.5 U	U	ug/L	1.5	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Benzo(g,h,i)perylene	1.5 U	U	ug/L	1.5	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Benzoic acid	6.2 U	U	ug/L	6.2	0.48	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Benzo(k)fluoranthene	1.5 U	U	ug/L	1.5	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Benzyl Alcohol	0.79J	J	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Biphenyl	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
4-Bromophenyl-phenylether	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Butylbenzylphthalate	1.9J	J	ug/L	3.1	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Caprolactam	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Carbazole	3.1 U	U	ug/L	3.1	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F

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ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699001** Date Collected: 9/14/2016 09:45 Matrix: NY Non-Potable Water

Sample ID: **EQ2 - Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Chloro-3-methylphenol	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
4-Chloroaniline	3.1 U	U,4	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
bis(2-Chloroethoxy)methane	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
bis(2-Chloroethyl)ether	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
bis(2-Chloroisopropyl)ether	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2-Chloronaphthalene	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2-Chlorophenol	3.1 U	U	ug/L	3.1	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
4-Chlorophenyl-phenylether	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Chrysene	1.5 U	U	ug/L	1.5	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
mp-Cresol	3.1 U	U	ug/L	3.1	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
o-Cresol	3.1 U	U	ug/L	3.1	0.26	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Di-n-Butylphthalate	1.4J	J	ug/L	3.1	0.14	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Di-n-Octylphthalate	3.1 U	U	ug/L	3.1	0.10	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Dibenzo(a,h)anthracene	1.5 U	U	ug/L	1.5	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Dibenzofuran	3.1 U	U	ug/L	3.1	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
1,2-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
1,3-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
1,4-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
3,3-Dichlorobenzidine	3.1 U	U	ug/L	3.1	0.49	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2,4-Dichlorophenol	3.1 U	U	ug/L	3.1	0.33	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2,6-Dichlorophenol	3.1 U	U	ug/L	3.1	0.55	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Diethylphthalate	1.2J	J	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Dimethoate	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2,4-Dimethylphenol	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Dimethylphthalate	191		ug/L	12.4	0.58	SW846 8270D	9/19/16 09:40	CAC	9/21/16 01:45	DHF	F
1,3-Dinitrobenzene	3.1 U	U	ug/L	3.1	0.28	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2,4-Dinitrophenol	6.2 U	U	ug/L	6.2	1.9	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2,4-Dinitrotoluene	3.1 U	U	ug/L	3.1	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2,6-Dinitrotoluene	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Diphenylamine	3.1 U	U	ug/L	3.1	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
bis(2-Ethylhexyl)phthalate	3.1 U	U	ug/L	3.1	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Fluoranthene	1.5 U	U	ug/L	1.5	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Fluorene	1.5 U	U	ug/L	1.5	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Hexachlorobenzene	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Hexachlorobutadiene	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Hexachlorocyclopentadiene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Hexachloroethane	3.1 U	U	ug/L	3.1	0.31	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Indeno(1,2,3-cd)pyrene	1.5 U	U	ug/L	1.5	0.10	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699001** Date Collected: 9/14/2016 09:45 Matrix: NY Non-Potable Water

Sample ID: **EQ2 - Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	3.1 U	U	ug/L	3.1	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2-Methyl-4,6-dinitrophenol	6.2 U	U	ug/L	6.2	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2-Methylnaphthalene	1.5 U	U	ug/L	1.5	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2-Naphthylamine	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Naphthalene	1.5 U	U	ug/L	1.5	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2-Nitroaniline	3.1 U	U	ug/L	3.1	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
3-Nitroaniline	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
4-Nitroaniline	3.1 U	U	ug/L	3.1	0.42	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Nitrobenzene	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2-Nitrophenol	3.1 U	U	ug/L	3.1	0.46	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
4-Nitrophenol	3.1 U	U	ug/L	3.1	1.1	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
N-Nitrosodi-n-butylamine	3.1 U	U	ug/L	3.1	0.28	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
N-Nitrosodiethylamine	3.1 U	U	ug/L	3.1	0.26	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
N-Nitrosodimethylamine	3.1 U	U	ug/L	3.1	0.66	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
N-Nitroso-di-n-propylamine	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
N-Nitrosodiphenylamine	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
N-Nitrosopyrrolidine	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Pentachlorobenzene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Pentachlorophenol	6.2 U	U	ug/L	6.2	1.1	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Phenanthrene	1.5 U	U	ug/L	1.5	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Phenol	8.2 U	U	ug/L	8.2	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Pyrene	1.5 U	U	ug/L	1.5	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Pyridine	3.1 U	U,2	ug/L	3.1	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
1,2,4,5-Tetrachlorobenzene	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2,3,4,6-Tetrachlorophenol	3.1 U	U	ug/L	3.1	0.49	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
1,2,4-Trichlorobenzene	3.1 U	U	ug/L	3.1	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2,4,5-Trichlorophenol	3.1 U	U	ug/L	3.1	0.57	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2,4,6-Trichlorophenol	3.1 U	U	ug/L	3.1	0.59	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	46.2	9	%	47 - 128	SW846 8270D	9/19/16 09:40	CAC	9/21/16 01:45	DHF	F
2,4,6-Tribromophenol (S)	43.7	1	%	47 - 128	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2-Fluorobiphenyl (S)	60.1		%	52 - 118	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
2-Fluorobiphenyl (S)	62.3		%	52 - 118	SW846 8270D	9/19/16 09:40	CAC	9/21/16 01:45	DHF	F
2-Fluorophenol (S)	30		%	20 - 87	SW846 8270D	9/19/16 09:40	CAC	9/21/16 01:45	DHF	F
2-Fluorophenol (S)	29.8		%	20 - 87	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Nitrobenzene-d5 (S)	66.4		%	27 - 139	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
Nitrobenzene-d5 (S)	63.7		%	27 - 139	SW846 8270D	9/19/16 09:40	CAC	9/21/16 01:45	DHF	F
Phenol-d5 (S)	24.4		%	10 - 81	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699001** Date Collected: 9/14/2016 09:45 Matrix: NY Non-Potable Water

Sample ID: **EQ2 - Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Phenol-d5 (S)	25		%	10 - 81		SW846 8270D	9/19/16 09:40	CAC	9/21/16 01:45	DHF	F
Terphenyl-d14 (S)	75.3		%	46 - 133		SW846 8270D	9/19/16 09:40	CAC	9/21/16 01:45	DHF	F
Terphenyl-d14 (S)	68.5		%	46 - 133		SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:28	GEC	F
PCBs											
Aroclor-1016	0.055 U	U	ug/L	0.055	0.013	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:06	EGO	
Aroclor-1221	0.055 U	U	ug/L	0.055	0.015	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:06	EGO	
Aroclor-1232	0.055 U	U	ug/L	0.055	0.042	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:06	EGO	
Aroclor-1242	0.055 U	U	ug/L	0.055	0.053	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:06	EGO	
Aroclor-1248	0.055 U	U	ug/L	0.055	0.031	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:06	EGO	
Aroclor-1254	0.055 U	U	ug/L	0.055	0.022	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:06	EGO	
Aroclor-1260	0.055 U	U	ug/L	0.055	0.015	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:06	EGO	
Aroclor-1262	0.055 U	U	ug/L	0.055	0.022	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:06	EGO	
Aroclor-1268	0.055 U	U	ug/L	0.055	0.037	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:06	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	84		%	30 - 140		SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:06	EGO	
Tetrachloro-m-xylene (S)	63.9		%	30 - 133		SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:06	EGO	
PESTICIDES											
Aldrin	0.027 U	U	ug/L	0.027	0.0067	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
alpha-BHC	0.027 U	U	ug/L	0.027	0.0027	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
beta-BHC	0.027 U	U	ug/L	0.027	0.011	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
delta-BHC	0.027 U	U	ug/L	0.027	0.0040	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
gamma-BHC	0.041		ug/L	0.027	0.0040	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
alpha-Chlordane	0.027 U	U	ug/L	0.027	0.0040	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
gamma-Chlordane	0.027 U	U	ug/L	0.027	0.0040	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
4,4'-DDD	0.027 U	U	ug/L	0.027	0.0093	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
4,4'-DDE	0.027 U	U	ug/L	0.027	0.0093	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
4,4'-DDT	0.027 U	U	ug/L	0.027	0.0080	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Dieldrin	0.027 U	U	ug/L	0.027	0.0040	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Endosulfan I	0.027 U	U	ug/L	0.027	0.0040	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Endosulfan II	0.027 U	U	ug/L	0.027	0.0080	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Endosulfan Sulfate	0.027 U	U	ug/L	0.027	0.0053	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Endrin	0.027 U	U	ug/L	0.027	0.011	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Endrin Aldehyde	0.027 U	U	ug/L	0.027	0.013	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Endrin Ketone	0.027 U	U	ug/L	0.027	0.0053	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Heptachlor	0.027 U	U	ug/L	0.027	0.0040	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Heptachlor Epoxide	0.027 U	U	ug/L	0.027	0.0053	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Methoxychlor	0.027 U	U	ug/L	0.027	0.012	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699001** Date Collected: 9/14/2016 09:45 Matrix: NY Non-Potable Water

Sample ID: **EQ2 - Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Toxaphene	1.3 U	U	ug/L	1.3	0.25	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	78.4		%	30 - 140		SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
Tetrachloro-m-xylene (S)	61.1		%	30 - 123		SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:24	RWS	A
HERBICIDES											
2,4-D	0.26 U	U	ug/L	0.26	0.032	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:04	KJH	H
2,4-DB	0.38 U	U	ug/L	0.38	0.059	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:04	KJH	H
Dalapon	1.3 U	U	ug/L	1.3	0.046	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:04	KJH	H
Dicamba	0.26 U	U	ug/L	0.26	0.059	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:04	KJH	H
Dichloroprop	0.64 U	U	ug/L	0.64	0.071	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:04	KJH	H
Dinoseb	6.4 U	U	ug/L	6.4	0.18	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:04	KJH	H
Pentachlorophenol	0.26 U	U	ug/L	0.26	0.026	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:04	KJH	H
2,4,5-T	0.26 U	U	ug/L	0.26	0.050	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:04	KJH	H
2,4,5-TP	0.38 U	U	ug/L	0.38	0.029	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:04	KJH	H
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	169		%	14 - 172		SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:04	KJH	H
WET CHEMISTRY											
Corrosivity as pH	7.22	6	pH_Units			SW846 9040C			9/20/16 01:26	MSA	I
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	J
Flashpoint/Ignitability	See comments	7,8	Deg. F			SW-846 1010A			9/22/16 10:05	AXC	J
Hexavalent Chromium	0.010 U	U,5	mg/L	0.010	0.0025	SW846 7196A			9/17/16 03:18	MSA	I
Sulfide, Reactive	4.8J	J	ppm	6.2	1.2	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	J
METALS											
Aluminum, Total	0.11 U	U	mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Antimony, Total	0.022 U	U	mg/L	0.022	0.010	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Arsenic, Total	0.0090 U	U	mg/L	0.0090	0.0030	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Barium, Total	0.016		mg/L	0.011	0.0036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Beryllium, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Cadmium, Total	0.0022 U	U	mg/L	0.0022	0.00073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Calcium, Total	0.47		mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Chromium, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Cobalt, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Copper, Total	0.011 U	U	mg/L	0.011	0.0036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Iron, Total	0.098		mg/L	0.067	0.022	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699001** Date Collected: 9/14/2016 09:45 Matrix: NY Non-Potable Water

Sample ID: **EQ2 - Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Lead, Total	0.0067 U	U	mg/L	0.0067	0.0022	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Magnesium, Total	0.11J	J	mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Manganese, Total	0.0032J	J	mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Mercury, Total	0.00050 U	U	mg/L	0.00050	0.00017	SW846 7470A	9/19/16 23:30	MNP	9/20/16 11:34	MNP	K2
Nickel, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Potassium, Total	0.56 U	U	mg/L	0.56	0.18	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Selenium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Silver, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Sodium, Total	0.77		mg/L	0.56	0.18	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Thallium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Vanadium, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1
Zinc, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:36	SRT	K1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699002** Date Collected: 9/14/2016 13:10 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-1** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		9/21/16 14:01	DD	A
Acetonitrile	20.0 U	U	ug/L	20.0	2.4	SW846 8260C		9/21/16 14:01	DD	A
Acrolein	25.0 U	U	ug/L	25.0	3.0	SW846 8260C		9/21/16 14:01	DD	A
Acrylonitrile	5.0 U	U	ug/L	5.0	1.2	SW846 8260C		9/21/16 14:01	DD	A
tert-Amyl methyl ether	1.0 U	U	ug/L	1.0	0.20	SW846 8260C		9/21/16 14:01	DD	A
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 14:01	DD	A
Benzyl Chloride	5.0 U	U	ug/L	5.0	0.46	SW846 8260C		9/21/16 14:01	DD	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:01	DD	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:01	DD	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		9/21/16 14:01	DD	A
Bromomethane	1.0 U	U	ug/L	1.0	0.39	SW846 8260C		9/21/16 14:01	DD	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		9/21/16 14:01	DD	A
tert-Butyl Alcohol	10.0 U	U	ug/L	10.0	2.2	SW846 8260C		9/21/16 14:01	DD	A
n-Butylbenzene	2.0 U	U	ug/L	2.0	0.60	SW846 8260C		9/21/16 14:01	DD	A
tert-Butylbenzene	2.0 U	U	ug/L	2.0	0.44	SW846 8260C		9/21/16 14:01	DD	A
sec-Butylbenzene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:01	DD	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 14:01	DD	A
Carbon Tetrachloride	7.2		ug/L	1.0	0.31	SW846 8260C		9/21/16 14:01	DD	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 14:01	DD	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 14:01	DD	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:01	DD	A
2-Chloroethylvinyl ether	2.0 U	U	ug/L	2.0	0.38	SW846 8260C		9/21/16 14:01	DD	A
Chloroform	0.70J	J	ug/L	1.0	0.21	SW846 8260C		9/21/16 14:01	DD	A
Chloromethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:01	DD	A
Chloroprene	1.0 U	U	ug/L	1.0	0.49	SW846 8260C		9/21/16 14:01	DD	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 14:01	DD	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		9/21/16 14:01	DD	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		9/21/16 14:01	DD	A
Dibromomethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:01	DD	A
trans-1,4-Dichloro-2-butene	3.0 U	U	ug/L	3.0	0.86	SW846 8260C		9/21/16 14:01	DD	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		9/21/16 14:01	DD	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 14:01	DD	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:01	DD	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:01	DD	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		9/21/16 14:01	DD	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:01	DD	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699002** Date Collected: 9/14/2016 13:10 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-1** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 14:01	DD	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:01	DD	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		9/21/16 14:01	DD	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:01	DD	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:01	DD	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 14:01	DD	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:01	DD	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:01	DD	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 14:01	DD	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 14:01	DD	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		9/21/16 14:01	DD	A
Ethyl Methacrylate	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:01	DD	A
Ethyl Acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 14:01	DD	A
Ethyl tert-butyl ether	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 14:01	DD	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 14:01	DD	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		9/21/16 14:01	DD	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		9/21/16 14:01	DD	A
Isobutyl alcohol	75.0 U	U	ug/L	75.0	12.5	SW846 8260C		9/21/16 14:01	DD	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		9/21/16 14:01	DD	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:01	DD	A
Methacrylonitrile	2.0 U	U	ug/L	2.0	0.55	SW846 8260C		9/21/16 14:01	DD	A
Methyl methacrylate	3.0 U	U	ug/L	3.0	0.50	SW846 8260C		9/21/16 14:01	DD	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 14:01	DD	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		9/21/16 14:01	DD	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:01	DD	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C		9/21/16 14:01	DD	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 14:01	DD	A
Naphthalene	2.0 U	U	ug/L	2.0	0.34	SW846 8260C		9/21/16 14:01	DD	A
Propionitrile	10.0 U	U	ug/L	10.0	2.6	SW846 8260C		9/21/16 14:01	DD	A
n-Propylbenzene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:01	DD	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 14:01	DD	A
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 14:01	DD	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 14:01	DD	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 14:01	DD	A
Toluene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 14:01	DD	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C		9/21/16 14:01	DD	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C		9/21/16 14:01	DD	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C		9/21/16 14:01	DD	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699002** Date Collected: 9/14/2016 13:10 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-1** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			9/21/16 14:01	DD	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 14:01	DD	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 14:01	DD	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			9/21/16 14:01	DD	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	0.60	SW846 8260C			9/21/16 14:01	DD	A
1,2,4-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C			9/21/16 14:01	DD	A
1,3,5-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.20	SW846 8260C			9/21/16 14:01	DD	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	1.6	SW846 8260C			9/21/16 14:01	DD	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			9/21/16 14:01	DD	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 14:01	DD	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			9/21/16 14:01	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	101		%	62 - 133		SW846 8260C			9/21/16 14:01	DD	A
4-Bromofluorobenzene (S)	104		%	79 - 114		SW846 8260C			9/21/16 14:01	DD	A
Dibromofluoromethane (S)	101		%	78 - 116		SW846 8260C			9/21/16 14:01	DD	A
Toluene-d8 (S)	97		%	76 - 127		SW846 8260C			9/21/16 14:01	DD	A
SEMIVOLATILES											
Acenaphthene	1.5 U	U	ug/L	1.5	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Acenaphthylene	1.5 U	U	ug/L	1.5	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Acetophenone	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Aniline	3.1 U	U,2	ug/L	3.1	0.27	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Anthracene	1.5 U	U	ug/L	1.5	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Atrazine	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Benzaldehyde	3.1 U	U	ug/L	3.1	0.27	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Benzidine	8.2 U	U	ug/L	8.2	3.2	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Benzo(a)anthracene	1.5 U	U	ug/L	1.5	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Benzo(a)pyrene	1.5 U	U	ug/L	1.5	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Benzo(b)fluoranthene	1.5 U	U	ug/L	1.5	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Benzo(g,h,i)perylene	1.5 U	U	ug/L	1.5	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Benzoic acid	6.2 U	U	ug/L	6.2	0.48	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Benzo(k)fluoranthene	1.5 U	U	ug/L	1.5	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Benzyl Alcohol	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Biphenyl	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
4-Bromophenyl-phenylether	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Butylbenzylphthalate	3.1 U	U	ug/L	3.1	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Caprolactam	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Carbazole	3.1 U	U	ug/L	3.1	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699002** Date Collected: 9/14/2016 13:10 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-1** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Chloro-3-methylphenol	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
4-Chloroaniline	3.1 U	U,3	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
bis(2-Chloroethoxy)methane	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
bis(2-Chloroethyl)ether	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
bis(2-Chloroisopropyl)ether	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2-Chloronaphthalene	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2-Chlorophenol	3.1 U	U	ug/L	3.1	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
4-Chlorophenyl-phenylether	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Chrysene	1.5 U	U	ug/L	1.5	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
mp-Cresol	3.1 U	U	ug/L	3.1	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
o-Cresol	3.1 U	U	ug/L	3.1	0.26	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Di-n-Butylphthalate	0.17J	J	ug/L	3.1	0.14	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Di-n-Octylphthalate	3.1 U	U	ug/L	3.1	0.10	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Dibenzo(a,h)anthracene	1.5 U	U	ug/L	1.5	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Dibenzofuran	3.1 U	U	ug/L	3.1	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
1,2-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
1,3-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
1,4-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
3,3-Dichlorobenzidine	3.1 U	U	ug/L	3.1	0.49	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2,4-Dichlorophenol	3.1 U	U	ug/L	3.1	0.33	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2,6-Dichlorophenol	3.1 U	U	ug/L	3.1	0.55	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Diethylphthalate	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Dimethoate	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2,4-Dimethylphenol	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Dimethylphthalate	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
1,3-Dinitrobenzene	3.1 U	U	ug/L	3.1	0.28	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2,4-Dinitrophenol	6.2 U	U	ug/L	6.2	1.9	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2,4-Dinitrotoluene	3.1 U	U	ug/L	3.1	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2,6-Dinitrotoluene	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Diphenylamine	3.1 U	U	ug/L	3.1	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
bis(2-Ethylhexyl)phthalate	3.1 U	U	ug/L	3.1	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Fluoranthene	1.5 U	U	ug/L	1.5	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Fluorene	1.5 U	U	ug/L	1.5	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Hexachlorobenzene	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Hexachlorobutadiene	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Hexachlorocyclopentadiene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Hexachloroethane	3.1 U	U	ug/L	3.1	0.31	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Indeno(1,2,3-cd)pyrene	1.5 U	U	ug/L	1.5	0.10	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699002** Date Collected: 9/14/2016 13:10 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-1** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Isophorone	3.1 U	U	ug/L	3.1	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2-Methyl-4,6-dinitrophenol	6.2 U	U	ug/L	6.2	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2-Methylnaphthalene	1.5 U	U	ug/L	1.5	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2-Naphthylamine	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Naphthalene	1.5 U	U	ug/L	1.5	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2-Nitroaniline	3.1 U	U	ug/L	3.1	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
3-Nitroaniline	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
4-Nitroaniline	3.1 U	U	ug/L	3.1	0.42	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Nitrobenzene	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2-Nitrophenol	3.1 U	U	ug/L	3.1	0.46	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
4-Nitrophenol	3.1 U	U	ug/L	3.1	1.1	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
N-Nitrosodi-n-butylamine	3.1 U	U	ug/L	3.1	0.28	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
N-Nitrosodiethylamine	3.1 U	U	ug/L	3.1	0.26	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
N-Nitrosodimethylamine	3.1 U	U	ug/L	3.1	0.66	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
N-Nitroso-di-n-propylamine	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
N-Nitrosodiphenylamine	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
N-Nitrosopyrrolidine	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Pentachlorobenzene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Pentachlorophenol	6.2 U	U	ug/L	6.2	1.1	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Phenanthrene	1.5 U	U	ug/L	1.5	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Phenol	8.2 U	U	ug/L	8.2	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Pyrene	1.5 U	U	ug/L	1.5	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Pyridine	3.1 U	U,1	ug/L	3.1	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
1,2,4,5-Tetrachlorobenzene	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2,3,4,6-Tetrachlorophenol	3.1 U	U	ug/L	3.1	0.49	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
1,2,4-Trichlorobenzene	3.1 U	U	ug/L	3.1	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2,4,5-Trichlorophenol	3.1 U	U	ug/L	3.1	0.57	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2,4,6-Trichlorophenol	3.1 U	U	ug/L	3.1	0.59	SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	79		%	47 - 128		SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2-Fluorobiphenyl (S)	72		%	52 - 118		SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
2-Fluorophenol (S)	48.9		%	20 - 87		SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Nitrobenzene-d5 (S)	76.4		%	27 - 139		SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Phenol-d5 (S)	32.3		%	10 - 81		SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
Terphenyl-d14 (S)	78.3		%	46 - 133		SW846 8270D	9/19/16 09:40	CAC	9/20/16 00:53	GEC	F
PCBs											
Aroclor-1016	0.053 U	U	ug/L	0.053	0.013	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:17	EGO	

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699002** Date Collected: 9/14/2016 13:10 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-1** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1221	0.053 U	U	ug/L	0.053	0.015	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:17	EGO	
Aroclor-1232	0.053 U	U	ug/L	0.053	0.040	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:17	EGO	
Aroclor-1242	0.053 U	U	ug/L	0.053	0.051	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:17	EGO	
Aroclor-1248	0.053 U	U	ug/L	0.053	0.030	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:17	EGO	
Aroclor-1254	0.053 U	U	ug/L	0.053	0.021	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:17	EGO	
Aroclor-1260	0.053 U	U	ug/L	0.053	0.015	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:17	EGO	
Aroclor-1262	0.053 U	U	ug/L	0.053	0.021	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:17	EGO	
Aroclor-1268	0.053 U	U	ug/L	0.053	0.036	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:17	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	51.3		%	30 - 140		SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:17	EGO	
Tetrachloro-m-xylene (S)	58.2		%	30 - 133		SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:17	EGO	
PESTICIDES											
Aldrin	0.023 U	U	ug/L	0.023	0.0057	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
alpha-BHC	0.023 U	U	ug/L	0.023	0.0023	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
beta-BHC	0.023 U	U	ug/L	0.023	0.0091	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
delta-BHC	0.023 U	U	ug/L	0.023	0.0034	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
gamma-BHC	0.023 U	U	ug/L	0.023	0.0034	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
alpha-Chlordane	0.023 U	U	ug/L	0.023	0.0034	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
gamma-Chlordane	0.023 U	U	ug/L	0.023	0.0034	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
4,4'-DDD	0.023 U	U	ug/L	0.023	0.0080	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
4,4'-DDE	0.023 U	U	ug/L	0.023	0.0080	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
4,4'-DDT	0.023 U	U	ug/L	0.023	0.0068	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Dieldrin	0.023 U	U	ug/L	0.023	0.0034	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Endosulfan I	0.023 U	U	ug/L	0.023	0.0034	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Endosulfan II	0.023 U	U	ug/L	0.023	0.0068	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Endosulfan Sulfate	0.023 U	U	ug/L	0.023	0.0045	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Endrin	0.023 U	U	ug/L	0.023	0.0091	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Endrin Aldehyde	0.023 U	U	ug/L	0.023	0.011	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Endrin Ketone	0.023 U	U	ug/L	0.023	0.0045	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Heptachlor	0.023 U	U	ug/L	0.023	0.0034	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Heptachlor Epoxide	0.023 U	U	ug/L	0.023	0.0045	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Methoxychlor	0.023 U	U	ug/L	0.023	0.010	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Toxaphene	1.1 U	U	ug/L	1.1	0.22	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	34.5		%	30 - 140		SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A
Tetrachloro-m-xylene (S)	59.7		%	30 - 123		SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:39	RWS	A

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699002** Date Collected: 9/14/2016 13:10 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-1** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
HERBICIDES											
2,4-D	0.20 U	U	ug/L	0.20	0.025	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:41	KJH	H
2,4-DB	0.30 U	U	ug/L	0.30	0.046	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:41	KJH	H
Dalapon	1.0 U	U	ug/L	1.0	0.036	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:41	KJH	H
Dicamba	0.20 U	U	ug/L	0.20	0.046	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:41	KJH	H
Dichloroprop	0.51 U	U	ug/L	0.51	0.056	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:41	KJH	H
Dinoseb	5.1 U	U	ug/L	5.1	0.14	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:41	KJH	H
Pentachlorophenol	0.20 U	U	ug/L	0.20	0.020	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:41	KJH	H
2,4,5-T	0.20 U	U	ug/L	0.20	0.039	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:41	KJH	H
2,4,5-TP	0.30 U	U	ug/L	0.30	0.023	SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:41	KJH	H
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	97.7		%	14 - 172		SW846 8151A	9/19/16 16:05	JSR	9/20/16 22:41	KJH	H
WET CHEMISTRY											
Corrosivity as pH	6.84	5	pH_Units			SW846 9040C			9/20/16 01:32	MSA	I
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/20/16 11:30	AHI	9/22/16 08:11	CTD	J
Flashpoint/Ignitability	See comments	7,8	Deg. F			SW-846 1010A			9/22/16 10:05	AXC	J
Hexavalent Chromium	0.010 U	U,4	mg/L	0.010	0.0025	SW846 7196A			9/17/16 03:18	MSA	I
Sulfide, Reactive	1.6J	J,6	ppm	6.2	1.2	SW846 7.3	9/20/16 11:30	AHI	9/20/16 18:00	AHI	J
METALS											
Aluminum, Total	6.7		mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Antimony, Total	0.022 U	U	mg/L	0.022	0.010	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Arsenic, Total	0.0043J	J	mg/L	0.0090	0.0030	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Barium, Total	0.16		mg/L	0.011	0.0036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Beryllium, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Cadmium, Total	0.00089J	J	mg/L	0.0022	0.00073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Calcium, Total	11.1		mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Chromium, Total	0.019		mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Cobalt, Total	0.0079		mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Copper, Total	0.019		mg/L	0.011	0.0036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Iron, Total	4.1		mg/L	0.067	0.022	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Lead, Total	0.011		mg/L	0.0067	0.0022	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Magnesium, Total	2.2		mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Manganese, Total	0.96		mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Mercury, Total	0.00050 U	U	mg/L	0.00050	0.00017	SW846 7470A	9/19/16 23:30	MNP	9/20/16 11:35	MNP	K2

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699002** Date Collected: 9/14/2016 13:10 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-1** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Nickel, Total	0.017J	J	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Potassium, Total	2.3		mg/L	0.56	0.18	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Selenium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Silver, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Sodium, Total	51.7		mg/L	0.56	0.18	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Thallium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Vanadium, Total	0.0051J	J	mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1
Zinc, Total	0.021J	J	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:40	SRT	K1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699003** Date Collected: 9/16/2016 09:09 Matrix: NY Non-Potable Water

Sample ID: **TB12** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		9/21/16 12:32	DD	A
Acetonitrile	20.0 U	U	ug/L	20.0	2.4	SW846 8260C		9/21/16 12:32	DD	A
Acrolein	25.0 U	U	ug/L	25.0	3.0	SW846 8260C		9/21/16 12:32	DD	A
Acrylonitrile	5.0 U	U	ug/L	5.0	1.2	SW846 8260C		9/21/16 12:32	DD	A
tert-Amyl methyl ether	1.0 U	U	ug/L	1.0	0.20	SW846 8260C		9/21/16 12:32	DD	A
Benzene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 12:32	DD	A
Benzyl Chloride	5.0 U	U	ug/L	5.0	0.46	SW846 8260C		9/21/16 12:32	DD	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:32	DD	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 12:32	DD	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		9/21/16 12:32	DD	A
Bromomethane	1.0 U	U	ug/L	1.0	0.39	SW846 8260C		9/21/16 12:32	DD	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		9/21/16 12:32	DD	A
tert-Butyl Alcohol	10.0 U	U	ug/L	10.0	2.2	SW846 8260C		9/21/16 12:32	DD	A
n-Butylbenzene	2.0 U	U	ug/L	2.0	0.60	SW846 8260C		9/21/16 12:32	DD	A
tert-Butylbenzene	2.0 U	U	ug/L	2.0	0.44	SW846 8260C		9/21/16 12:32	DD	A
sec-Butylbenzene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 12:32	DD	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 12:32	DD	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 12:32	DD	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 12:32	DD	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 12:32	DD	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 12:32	DD	A
2-Chloroethylvinyl ether	2.0 U	U	ug/L	2.0	0.38	SW846 8260C		9/21/16 12:32	DD	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		9/21/16 12:32	DD	A
Chloromethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 12:32	DD	A
Chloroprene	1.0 U	U	ug/L	1.0	0.49	SW846 8260C		9/21/16 12:32	DD	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 12:32	DD	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	1.5	SW846 8260C		9/21/16 12:32	DD	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		9/21/16 12:32	DD	A
Dibromomethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 12:32	DD	A
trans-1,4-Dichloro-2-butene	3.0 U	U	ug/L	3.0	0.86	SW846 8260C		9/21/16 12:32	DD	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		9/21/16 12:32	DD	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 12:32	DD	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 12:32	DD	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 12:32	DD	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		9/21/16 12:32	DD	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:32	DD	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699003** Date Collected: 9/16/2016 09:09 Matrix: NY Non-Potable Water

Sample ID: **TB12** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 12:32	DD	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:32	DD	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		9/21/16 12:32	DD	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 12:32	DD	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:32	DD	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 12:32	DD	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 12:32	DD	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 12:32	DD	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 12:32	DD	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 12:32	DD	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		9/21/16 12:32	DD	A
Ethyl Methacrylate	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:32	DD	A
Ethyl Acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 12:32	DD	A
Ethyl tert-butyl ether	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 12:32	DD	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 12:32	DD	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		9/21/16 12:32	DD	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		9/21/16 12:32	DD	A
Isobutyl alcohol	75.0 U	U	ug/L	75.0	12.5	SW846 8260C		9/21/16 12:32	DD	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		9/21/16 12:32	DD	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 12:32	DD	A
Methacrylonitrile	2.0 U	U	ug/L	2.0	0.55	SW846 8260C		9/21/16 12:32	DD	A
Methyl methacrylate	3.0 U	U	ug/L	3.0	0.50	SW846 8260C		9/21/16 12:32	DD	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 12:32	DD	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		9/21/16 12:32	DD	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 12:32	DD	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C		9/21/16 12:32	DD	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 12:32	DD	A
Naphthalene	2.0 U	U	ug/L	2.0	0.34	SW846 8260C		9/21/16 12:32	DD	A
Propionitrile	10.0 U	U	ug/L	10.0	2.6	SW846 8260C		9/21/16 12:32	DD	A
n-Propylbenzene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 12:32	DD	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 12:32	DD	A
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 12:32	DD	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 12:32	DD	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 12:32	DD	A
Toluene	0.49J	J	ug/L	1.0	0.23	SW846 8260C		9/21/16 12:32	DD	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C		9/21/16 12:32	DD	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C		9/21/16 12:32	DD	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C		9/21/16 12:32	DD	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175699 CBR023|Rocket Fuel Area 154035

Lab ID: **2175699003** Date Collected: 9/16/2016 09:09 Matrix: NY Non-Potable Water

Sample ID: **TB12** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			9/21/16 12:32	DD	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 12:32	DD	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 12:32	DD	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			9/21/16 12:32	DD	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	0.60	SW846 8260C			9/21/16 12:32	DD	A
1,2,4-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C			9/21/16 12:32	DD	A
1,3,5-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.20	SW846 8260C			9/21/16 12:32	DD	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	1.6	SW846 8260C			9/21/16 12:32	DD	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			9/21/16 12:32	DD	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 12:32	DD	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			9/21/16 12:32	DD	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.8		%	62 - 133	SW846 8260C			9/21/16 12:32	DD	A
4-Bromofluorobenzene (S)	105		%	79 - 114	SW846 8260C			9/21/16 12:32	DD	A
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260C			9/21/16 12:32	DD	A
Toluene-d8 (S)	96.1		%	76 - 127	SW846 8260C			9/21/16 12:32	DD	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2175699001	1	EQ2 - Water	SW846 8270D	2,4,6-Tribromophenol
The surrogate 2,4,6-Tribromophenol for method SW846 8270D was outside of control limits. The % Recovery was reported as 43.7 and the control limits were 47 to 128. This result was reported at a dilution of 1.				
2175699001	2	EQ2 - Water	SW846 8270D	Pyridine
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte Pyridine.				
2175699001	3	EQ2 - Water	SW846 8270D	Aniline
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte Aniline.				
2175699001	4	EQ2 - Water	SW846 8270D	4-Chloroaniline
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte 4-Chloroaniline.				
2175699001	5	EQ2 - Water	SW846 7196A	Hexavalent Chromium
Analyte was analyzed past the 24 hour holding time.				
2175699001	6	EQ2 - Water	SW846 9040C	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				
2175699001	7	EQ2 - Water	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175699001	8	EQ2 - Water	SW-846 1010A	Flashpoint/Ignitability
Sample did not flash at up to 200 degrees F				
2175699001	9	EQ2 - Water	SW846 8270D	2,4,6-Tribromophenol
The surrogate 2,4,6-Tribromophenol for method SW846 8270D was outside of control limits. The % Recovery was reported as 46.2 and the control limits were 47 to 128. This result was reported at a dilution of 4.				
2175699002	1	GW-SB-1	SW846 8270D	Pyridine
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte Pyridine.				
2175699002	2	GW-SB-1	SW846 8270D	Aniline
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte Aniline.				
2175699002	3	GW-SB-1	SW846 8270D	4-Chloroaniline
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte 4-Chloroaniline.				
2175699002	4	GW-SB-1	SW846 7196A	Hexavalent Chromium
Analyte was analyzed past the 24 hour holding time.				
2175699002	5	GW-SB-1	SW846 9040C	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				
2175699002	6	GW-SB-1	SW846 7.3	Sulfide, Reactive
The lack of homogeneity in the sample caused the replicate analysis of this analyte to exceed the established control limits for precision.				
2175699002	7	GW-SB-1	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175699002	8	GW-SB-1	SW-846 1010A	Flashpoint/Ignitability
Sample did not flash at up to 200 degrees F				

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Middletown, PA 17057
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F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of
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Tracking #: 6470830

* 2 1 7 5 6 9 9 *

Co. Name: CB&I Environmental & Infrastructure Inc.
Contact (Report to): Brian Neumann Phone: 518-785-2354
Address: 13 British American Blvd Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area/154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] Y Brian.Neumann@CBI.com
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	***Container Type	***Container Size	*** Preservative	VOCs 8260C	SVOCs 8270D	PCBs 8082A	Pesticides	Herbicides	Total Metals 6010C and 7470A	Hexavalent Chromium 7196A	Reactivity (7.3.1.7.3.2N) Corrosivity (9040C) Ignitability (1030)
						CG	AG	AG	AG	AG	PL	PL				
						40mL	1L	1L	1L	1L	250mL	250mL	500mL			
						HCl	None	None	None	None	HNO_3	None	None			
						ANALYSES/METHOD REQUESTED										
1 EQ2-WATER		9-14-16	0945	G	GW	3	2	1	1	1	1	1	1			
2 GW-SB-1		9-14-16	1310	G	GW	3	2	1	1	1	1	1	1			
3 ~~IRE~~ A.N. TB12		9-14-16	—	—	—	X3										
4																
5																
6																
7																
8																

Enter Number of Containers Per Analysis

Cooler Receipt Information (completed by Sample Receiving)
Performed by: JAW
Cooler Temp: 5
Therm. ID: 352
No. of Coolers:
Notes:

Circle appropriate Y or N.	Container in good condition?	COC/Labels complete/accurate?	Received on ice?	(if present) Seals intact?	Custody seals Present?
Y N	Y N	Y N	Y N	Y N	Y N
Y N	Y N	Y N	Y N	Y N	Y N
Y N	Y N	Y N	Y N	Y N	Y N

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: See QAPP

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Adam Norvelle /CBI	9-14-16	1640	2	9/14/16	1640
3	9/14/16	1700	4 Jenifer Dunn	9/16/16	0909
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
PWSID/PWS ID No.

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; Sl=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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September 27, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2175701**
Purchase Order:	**962015**	Workorder ID:	**CBR024|Rocket Fuel Area 154035**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Friday, September 16, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2175701001	GW-SB-3	NY Non-Potable Water	9/15/2016 14:30	9/16/2016 09:09	Collected by Client
2175701002	DUP2-Water	NY Non-Potable Water	9/15/2016 00:00	9/16/2016 09:09	Collected by Client

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Lab ID: **2175701001** Date Collected: 9/15/2016 14:30 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-3** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	1.5 U	U	ug/L	1.5	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Acenaphthylene	1.5 U	U	ug/L	1.5	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Acetophenone	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Aniline	3.1 U	U,2	ug/L	3.1	0.27	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Anthracene	1.5 U	U	ug/L	1.5	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Atrazine	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Benzaldehyde	3.1 U	U	ug/L	3.1	0.27	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Benzidine	8.2 U	U	ug/L	8.2	3.2	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Benzo(a)anthracene	1.5 U	U	ug/L	1.5	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Benzo(a)pyrene	1.5 U	U	ug/L	1.5	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Benzo(b)fluoranthene	1.5 U	U	ug/L	1.5	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Benzo(g,h,i)perylene	1.5 U	U	ug/L	1.5	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Benzoic acid	6.2 U	U	ug/L	6.2	0.48	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Benzo(k)fluoranthene	1.5 U	U	ug/L	1.5	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Benzyl Alcohol	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Biphenyl	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
4-Bromophenyl-phenylether	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Butylbenzylphthalate	3.1 U	U	ug/L	3.1	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Caprolactam	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Carbazole	3.1 U	U	ug/L	3.1	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
4-Chloro-3-methylphenol	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
4-Chloroaniline	3.1 U	U,3	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
bis(2-Chloroethoxy)methane	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
bis(2-Chloroethyl)ether	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
bis(2-Chloroisopropyl)ether	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2-Chloronaphthalene	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2-Chlorophenol	3.1 U	U	ug/L	3.1	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
4-Chlorophenyl-phenylether	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Chrysene	1.5 U	U	ug/L	1.5	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
mp-Cresol	3.1 U	U	ug/L	3.1	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
o-Cresol	3.1 U	U	ug/L	3.1	0.26	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Di-n-Butylphthalate	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Di-n-Octylphthalate	3.1 U	U	ug/L	3.1	0.10	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Dibenzo(a,h)anthracene	1.5 U	U	ug/L	1.5	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Dibenzofuran	3.1 U	U	ug/L	3.1	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
1,2-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
1,3-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C

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ANALYTICAL RESULTS

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Lab ID: **2175701001** Date Collected: 9/15/2016 14:30 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-3** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,4-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
3,3-Dichlorobenzidine	3.1 U	U	ug/L	3.1	0.49	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2,4-Dichlorophenol	3.1 U	U	ug/L	3.1	0.33	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2,6-Dichlorophenol	3.1 U	U	ug/L	3.1	0.55	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Diethylphthalate	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Dimethoate	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2,4-Dimethylphenol	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Dimethylphthalate	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
1,3-Dinitrobenzene	3.1 U	U	ug/L	3.1	0.28	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2,4-Dinitrophenol	6.2 U	U	ug/L	6.2	1.9	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2,4-Dinitrotoluene	3.1 U	U	ug/L	3.1	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2,6-Dinitrotoluene	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Diphenylamine	3.1 U	U	ug/L	3.1	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
bis(2-Ethylhexyl)phthalate	3.1 U	U	ug/L	3.1	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Fluoranthene	1.5 U	U	ug/L	1.5	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Fluorene	1.5 U	U	ug/L	1.5	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Hexachlorobenzene	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Hexachlorobutadiene	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Hexachlorocyclopentadiene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Hexachloroethane	3.1 U	U	ug/L	3.1	0.31	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Indeno(1,2,3-cd)pyrene	1.5 U	U	ug/L	1.5	0.10	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Isophorone	3.1 U	U	ug/L	3.1	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2-Methyl-4,6-dinitrophenol	6.2 U	U	ug/L	6.2	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2-Methylnaphthalene	1.5 U	U	ug/L	1.5	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2-Naphthylamine	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Naphthalene	1.5 U	U	ug/L	1.5	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2-Nitroaniline	3.1 U	U	ug/L	3.1	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
3-Nitroaniline	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
4-Nitroaniline	3.1 U	U	ug/L	3.1	0.42	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Nitrobenzene	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2-Nitrophenol	3.1 U	U	ug/L	3.1	0.46	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
4-Nitrophenol	3.1 U	U	ug/L	3.1	1.1	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
N-Nitrosodi-n-butylamine	3.1 U	U	ug/L	3.1	0.28	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
N-Nitrosodiethylamine	3.1 U	U	ug/L	3.1	0.26	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
N-Nitrosodimethylamine	3.1 U	U	ug/L	3.1	0.66	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
N-Nitroso-di-n-propylamine	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
N-Nitrosodiphenylamine	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
N-Nitrosopyrrolidine	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C

ANALYTICAL RESULTS

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Lab ID: **2175701001** Date Collected: 9/15/2016 14:30 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-3** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Pentachlorobenzene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Pentachlorophenol	6.2 U	U	ug/L	6.2	1.1	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Phenanthrene	1.5 U	U	ug/L	1.5	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Phenol	8.2 U	U	ug/L	8.2	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Pyrene	1.5 U	U	ug/L	1.5	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Pyridine	3.1 U	U,1	ug/L	3.1	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
1,2,4,5-Tetrachlorobenzene	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2,3,4,6-Tetrachlorophenol	3.1 U	U	ug/L	3.1	0.49	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
1,2,4-Trichlorobenzene	3.1 U	U	ug/L	3.1	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2,4,5-Trichlorophenol	3.1 U	U	ug/L	3.1	0.57	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2,4,6-Trichlorophenol	3.1 U	U	ug/L	3.1	0.59	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	73		%	47 - 128		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2-Fluorobiphenyl (S)	63.8		%	52 - 118		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
2-Fluorophenol (S)	47.8		%	20 - 87		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Nitrobenzene-d5 (S)	67.3		%	27 - 139		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Phenol-d5 (S)	30.3		%	10 - 81		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
Terphenyl-d14 (S)	77.5		%	46 - 133		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:17	GEC	C
PCBs											
Aroclor-1016	0.052 U	U	ug/L	0.052	0.013	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:29	EGO	
Aroclor-1221	0.052 U	U	ug/L	0.052	0.015	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:29	EGO	
Aroclor-1232	0.052 U	U	ug/L	0.052	0.040	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:29	EGO	
Aroclor-1242	0.052 U	U	ug/L	0.052	0.050	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:29	EGO	
Aroclor-1248	0.052 U	U	ug/L	0.052	0.029	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:29	EGO	
Aroclor-1254	0.052 U	U	ug/L	0.052	0.021	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:29	EGO	
Aroclor-1260	0.052 U	U	ug/L	0.052	0.015	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:29	EGO	
Aroclor-1262	0.052 U	U	ug/L	0.052	0.021	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:29	EGO	
Aroclor-1268	0.052 U	U	ug/L	0.052	0.035	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:29	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	73.7		%	30 - 140		SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:29	EGO	
Tetrachloro-m-xylene (S)	63.8		%	30 - 133		SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:29	EGO	
PESTICIDES											
Aldrin	0.020 U	U	ug/L	0.020	0.0050	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
alpha-BHC	0.020 U	U	ug/L	0.020	0.0020	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
beta-BHC	0.020 U	U	ug/L	0.020	0.0080	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
delta-BHC	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Lab ID: **2175701001** Date Collected: 9/15/2016 14:30 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-3** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
gamma-BHC	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
alpha-Chlordane	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
gamma-Chlordane	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
4,4'-DDD	0.020 U	U	ug/L	0.020	0.0070	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
4,4'-DDE	0.020 U	U	ug/L	0.020	0.0070	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
4,4'-DDT	0.020 U	U	ug/L	0.020	0.0060	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Dieldrin	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Endosulfan I	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Endosulfan II	0.020 U	U	ug/L	0.020	0.0060	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Endosulfan Sulfate	0.020 U	U	ug/L	0.020	0.0040	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Endrin	0.020 U	U	ug/L	0.020	0.0080	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Endrin Aldehyde	0.020 U	U	ug/L	0.020	0.010	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Endrin Ketone	0.020 U	U	ug/L	0.020	0.0040	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Heptachlor	0.020 U	U	ug/L	0.020	0.0030	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Heptachlor Epoxide	0.020 U	U	ug/L	0.020	0.0040	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Methoxychlor	0.020 U	U	ug/L	0.020	0.0090	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Toxaphene	1.0 U	U	ug/L	1.0	0.19	SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	83.9		%	30 - 140		SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
Tetrachloro-m-xylene (S)	65.1		%	30 - 123		SW846 8081B	9/20/16 09:40	LEH	9/21/16 23:55	RWS	A
HERBICIDES											
2,4-D	0.20 U	U	ug/L	0.20	0.025	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:18	KJH	E
2,4-DB	0.30 U	U	ug/L	0.30	0.046	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:18	KJH	E
Dalapon	1.0 U	U	ug/L	1.0	0.036	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:18	KJH	E
Dicamba	0.20 U	U	ug/L	0.20	0.046	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:18	KJH	E
Dichloroprop	0.51 U	U	ug/L	0.51	0.056	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:18	KJH	E
Dinoseb	5.1 U	U	ug/L	5.1	0.14	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:18	KJH	E
Pentachlorophenol	0.20 U	U	ug/L	0.20	0.020	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:18	KJH	E
2,4,5-T	0.20 U	U	ug/L	0.20	0.039	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:18	KJH	E
2,4,5-TP	0.30 U	U	ug/L	0.30	0.023	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:18	KJH	E
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	97.2		%	14 - 172		SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:18	KJH	E
WET CHEMISTRY											
Corrosivity as pH	7.79	5	pH_Units			SW846 9040C			9/20/16 01:38	MSA	F
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/21/16 11:30	AHI	9/22/16 08:11	CTD	G

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Lab ID: **2175701001** Date Collected: 9/15/2016 14:30 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-3** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Flashpoint/Ignitability	See comments	6,7	Deg. F			SW-846 1010A			9/22/16 10:05	AXC	G
Hexavalent Chromium	0.010 U	U,4	mg/L	0.010	0.0025	SW846 7196A			9/17/16 03:18	MSA	F
Sulfide, Reactive	5.2J	J	ppm	6.2	1.2	SW846 7.3	9/21/16 11:30	AHI	9/21/16 18:00	AHI	G
METALS											
Aluminum, Total	0.071J	J	mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Antimony, Total	0.022 U	U	mg/L	0.022	0.010	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Arsenic, Total	0.0090 U	U	mg/L	0.0090	0.0030	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Barium, Total	0.011 U	U	mg/L	0.011	0.0036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Beryllium, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Cadmium, Total	0.0022 U	U	mg/L	0.0022	0.00073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Calcium, Total	16.2		mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Chromium, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Cobalt, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Copper, Total	0.011 U	U	mg/L	0.011	0.0036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Iron, Total	0.083		mg/L	0.067	0.022	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Lead, Total	0.0067 U	U	mg/L	0.0067	0.0022	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Magnesium, Total	1.3		mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Manganese, Total	0.12		mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Mercury, Total	0.00050 U	U	mg/L	0.00050	0.00017	SW846 7470A	9/19/16 23:30	MNP	9/20/16 11:36	MNP	H2
Nickel, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Potassium, Total	0.48J	J	mg/L	0.56	0.18	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Selenium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Silver, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Sodium, Total	4.0		mg/L	0.56	0.18	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Thallium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Vanadium, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1
Zinc, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 13:44	SRT	H1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Lab ID: **2175701002** Date Collected: 9/15/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **DUP2-Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES											
Acenaphthene	1.5 U	U	ug/L	1.5	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Acenaphthylene	1.5 U	U	ug/L	1.5	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Acetophenone	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Aniline	3.1 U	U,2	ug/L	3.1	0.27	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Anthracene	1.5 U	U	ug/L	1.5	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Atrazine	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Benzaldehyde	3.1 U	U	ug/L	3.1	0.27	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Benzidine	8.2 U	U	ug/L	8.2	3.2	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Benzo(a)anthracene	1.5 U	U	ug/L	1.5	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Benzo(a)pyrene	1.5 U	U	ug/L	1.5	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Benzo(b)fluoranthene	1.5 U	U	ug/L	1.5	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Benzo(g,h,i)perylene	1.5 U	U	ug/L	1.5	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Benzoic acid	6.2 U	U	ug/L	6.2	0.48	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Benzo(k)fluoranthene	1.5 U	U	ug/L	1.5	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Benzyl Alcohol	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Biphenyl	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
4-Bromophenyl-phenylether	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Butylbenzylphthalate	3.1 U	U	ug/L	3.1	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Caprolactam	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Carbazole	3.1 U	U	ug/L	3.1	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
4-Chloro-3-methylphenol	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
4-Chloroaniline	3.1 U	U,3	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
bis(2-Chloroethoxy)methane	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
bis(2-Chloroethyl)ether	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
bis(2-Chloroisopropyl)ether	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2-Chloronaphthalene	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2-Chlorophenol	3.1 U	U	ug/L	3.1	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
4-Chlorophenyl-phenylether	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Chrysene	1.5 U	U	ug/L	1.5	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
mp-Cresol	3.1 U	U	ug/L	3.1	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
o-Cresol	3.1 U	U	ug/L	3.1	0.26	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Di-n-Butylphthalate	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Di-n-Octylphthalate	3.1 U	U	ug/L	3.1	0.10	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Dibenzo(a,h)anthracene	1.5 U	U	ug/L	1.5	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Dibenzofuran	3.1 U	U	ug/L	3.1	0.11	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
1,2-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
1,3-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C

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ANALYTICAL RESULTS

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Lab ID: **2175701002** Date Collected: 9/15/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **DUP2-Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,4-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
3,3-Dichlorobenzidine	3.1 U	U	ug/L	3.1	0.49	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2,4-Dichlorophenol	3.1 U	U	ug/L	3.1	0.33	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2,6-Dichlorophenol	3.1 U	U	ug/L	3.1	0.55	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Diethylphthalate	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Dimethoate	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2,4-Dimethylphenol	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Dimethylphthalate	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
1,3-Dinitrobenzene	3.1 U	U	ug/L	3.1	0.28	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2,4-Dinitrophenol	6.2 U	U	ug/L	6.2	1.9	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2,4-Dinitrotoluene	3.1 U	U	ug/L	3.1	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2,6-Dinitrotoluene	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Diphenylamine	3.1 U	U	ug/L	3.1	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
bis(2-Ethylhexyl)phthalate	3.1 U	U	ug/L	3.1	0.23	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Fluoranthene	1.5 U	U	ug/L	1.5	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Fluorene	1.5 U	U	ug/L	1.5	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Hexachlorobenzene	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Hexachlorobutadiene	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Hexachlorocyclopentadiene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Hexachloroethane	3.1 U	U	ug/L	3.1	0.31	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Indeno(1,2,3-cd)pyrene	1.5 U	U	ug/L	1.5	0.10	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Isophorone	3.1 U	U	ug/L	3.1	0.15	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2-Methyl-4,6-dinitrophenol	6.2 U	U	ug/L	6.2	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2-Methylnaphthalene	1.5 U	U	ug/L	1.5	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2-Naphthylamine	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Naphthalene	1.5 U	U	ug/L	1.5	0.12	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2-Nitroaniline	3.1 U	U	ug/L	3.1	0.21	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
3-Nitroaniline	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
4-Nitroaniline	3.1 U	U	ug/L	3.1	0.42	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Nitrobenzene	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2-Nitrophenol	3.1 U	U	ug/L	3.1	0.46	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
4-Nitrophenol	3.1 U	U	ug/L	3.1	1.1	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
N-Nitrosodi-n-butylamine	3.1 U	U	ug/L	3.1	0.28	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
N-Nitrosodiethylamine	3.1 U	U	ug/L	3.1	0.26	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
N-Nitrosodimethylamine	3.1 U	U	ug/L	3.1	0.66	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
N-Nitroso-di-n-propylamine	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
N-Nitrosodiphenylamine	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
N-Nitrosopyrrolidine	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C

ANALYTICAL RESULTS

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Lab ID: **2175701002** Date Collected: 9/15/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **DUP2-Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Pentachlorobenzene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Pentachlorophenol	6.2 U	U	ug/L	6.2	1.1	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Phenanthrene	1.5 U	U	ug/L	1.5	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Phenol	8.2 U	U	ug/L	8.2	0.24	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Pyrene	1.5 U	U	ug/L	1.5	0.16	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Pyridine	3.1 U	U,1	ug/L	3.1	0.34	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
1,2,4,5-Tetrachlorobenzene	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2,3,4,6-Tetrachlorophenol	3.1 U	U	ug/L	3.1	0.49	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
1,2,4-Trichlorobenzene	3.1 U	U	ug/L	3.1	0.13	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2,4,5-Trichlorophenol	3.1 U	U	ug/L	3.1	0.57	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2,4,6-Trichlorophenol	3.1 U	U	ug/L	3.1	0.59	SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	59.9		%	47 - 128		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2-Fluorobiphenyl (S)	53.1		%	52 - 118		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
2-Fluorophenol (S)	35.5		%	20 - 87		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Nitrobenzene-d5 (S)	54.4		%	27 - 139		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Phenol-d5 (S)	22.6		%	10 - 81		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
Terphenyl-d14 (S)	63.4		%	46 - 133		SW846 8270D	9/19/16 09:40	CAC	9/20/16 01:42	GEC	C
PCBs											
Aroclor-1016	0.051 U	U	ug/L	0.051	0.012	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:41	EGO	
Aroclor-1221	0.051 U	U	ug/L	0.051	0.014	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:41	EGO	
Aroclor-1232	0.051 U	U	ug/L	0.051	0.039	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:41	EGO	
Aroclor-1242	0.051 U	U	ug/L	0.051	0.049	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:41	EGO	
Aroclor-1248	0.051 U	U	ug/L	0.051	0.028	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:41	EGO	
Aroclor-1254	0.051 U	U	ug/L	0.051	0.020	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:41	EGO	
Aroclor-1260	0.051 U	U	ug/L	0.051	0.014	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:41	EGO	
Aroclor-1262	0.051 U	U	ug/L	0.051	0.020	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:41	EGO	
Aroclor-1268	0.051 U	U	ug/L	0.051	0.035	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:41	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	75.6		%	30 - 140		SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:41	EGO	
Tetrachloro-m-xylene (S)	53.3		%	30 - 133		SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:41	EGO	
PESTICIDES											
Aldrin	0.021 U	U	ug/L	0.021	0.0052	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
alpha-BHC	0.021 U	U	ug/L	0.021	0.0021	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
beta-BHC	0.021 U	U	ug/L	0.021	0.0083	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
delta-BHC	0.021 U	U	ug/L	0.021	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Lab ID: **2175701002** Date Collected: 9/15/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **DUP2-Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
gamma-BHC	0.021 U	U	ug/L	0.021	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
alpha-Chlordane	0.021 U	U	ug/L	0.021	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
gamma-Chlordane	0.021 U	U	ug/L	0.021	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
4,4'-DDD	0.021 U	U	ug/L	0.021	0.0073	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
4,4'-DDE	0.021 U	U	ug/L	0.021	0.0073	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
4,4'-DDT	0.021 U	U	ug/L	0.021	0.0063	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Dieldrin	0.021 U	U	ug/L	0.021	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Endosulfan I	0.021 U	U	ug/L	0.021	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Endosulfan II	0.021 U	U	ug/L	0.021	0.0063	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Endosulfan Sulfate	0.021 U	U	ug/L	0.021	0.0042	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Endrin	0.021 U	U	ug/L	0.021	0.0083	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Endrin Aldehyde	0.021 U	U	ug/L	0.021	0.010	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Endrin Ketone	0.021 U	U	ug/L	0.021	0.0042	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Heptachlor	0.021 U	U	ug/L	0.021	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Heptachlor Epoxide	0.021 U	U	ug/L	0.021	0.0042	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Methoxychlor	0.021 U	U	ug/L	0.021	0.0094	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Toxaphene	1.0 U	U	ug/L	1.0	0.20	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	75		%	30 - 140		SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
Tetrachloro-m-xylene (S)	61.3		%	30 - 123		SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:11	RWS	A
HERBICIDES											
2,4-D	0.20 U	U	ug/L	0.20	0.025	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:56	KJH	E
2,4-DB	0.30 U	U	ug/L	0.30	0.046	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:56	KJH	E
Dalapon	1.0 U	U	ug/L	1.0	0.036	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:56	KJH	E
Dicamba	0.20 U	U	ug/L	0.20	0.046	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:56	KJH	E
Dichloroprop	0.51 U	U	ug/L	0.51	0.056	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:56	KJH	E
Dinoseb	5.1 U	U	ug/L	5.1	0.14	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:56	KJH	E
Pentachlorophenol	0.20 U	U	ug/L	0.20	0.020	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:56	KJH	E
2,4,5-T	0.20 U	U	ug/L	0.20	0.039	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:56	KJH	E
2,4,5-TP	0.30 U	U	ug/L	0.30	0.023	SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:56	KJH	E
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	97		%	14 - 172		SW846 8151A	9/19/16 16:05	JSR	9/20/16 23:56	KJH	E
WET CHEMISTRY											
Corrosivity as pH	7.92	5	pH_Units			SW846 9040C			9/20/16 01:45	MSA	F
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/21/16 11:30	AHI	9/22/16 08:11	CTD	G

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175701 CBR024|Rocket Fuel Area 154035

Lab ID: **2175701002** Date Collected: 9/15/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **DUP2-Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	*Cntr*
Flashpoint/Ignitability	See comments	6,7	Deg. F			SW-846 1010A			9/22/16 10:05	AXC	G
Hexavalent Chromium	0.010 U	U,4	mg/L	0.010	0.0025	SW846 7196A			9/17/16 03:18	MSA	F
Sulfide, Reactive	6.2 U	U	ppm	6.2	1.2	SW846 7.3	9/21/16 11:30	AHI	9/21/16 18:00	AHI	G
METALS											
Aluminum, Total	0.049J	J	mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Antimony, Total	0.022 U	U	mg/L	0.022	0.010	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Arsenic, Total	0.0090 U	U	mg/L	0.0090	0.0030	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Barium, Total	0.011 U	U	mg/L	0.011	0.0036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Beryllium, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Cadmium, Total	0.0022 U	U	mg/L	0.0022	0.00073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Calcium, Total	15.1		mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Chromium, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Cobalt, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Copper, Total	0.011 U	U	mg/L	0.011	0.0036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Iron, Total	0.058J	J	mg/L	0.067	0.022	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Lead, Total	0.0067 U	U	mg/L	0.0067	0.0022	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Magnesium, Total	1.2		mg/L	0.11	0.036	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Manganese, Total	0.11		mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Mercury, Total	0.00050 U	U	mg/L	0.00050	0.00017	SW846 7470A	9/20/16 01:40	MNP	9/20/16 11:39	MNP	H2
Nickel, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Potassium, Total	0.46J	J	mg/L	0.56	0.18	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Selenium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Silver, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Sodium, Total	3.7		mg/L	0.56	0.18	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Thallium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Vanadium, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1
Zinc, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/19/16 14:00	JPS	9/20/16 14:17	SRT	H1

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2175701001	1	GW-SB-3	SW846 8270D	Pyridine
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte Pyridine.				
2175701001	2	GW-SB-3	SW846 8270D	Aniline
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte Aniline.				
2175701001	3	GW-SB-3	SW846 8270D	4-Chloroaniline
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte 4-Chloroaniline.				
2175701001	4	GW-SB-3	SW846 7196A	Hexavalent Chromium
Analyte was analyzed past the 24 hour holding time.				
2175701001	5	GW-SB-3	SW846 9040C	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				
2175701001	6	GW-SB-3	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175701001	7	GW-SB-3	SW-846 1010A	Flashpoint/Ignitability
Sample did not flash at up to 200 degrees F				
2175701002	1	DUP2-Water	SW846 8270D	Pyridine
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte Pyridine.				
2175701002	2	DUP2-Water	SW846 8270D	Aniline
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte Aniline.				
2175701002	3	DUP2-Water	SW846 8270D	4-Chloroaniline
The Method Blank for method SW846 8270D reported a value greater than the reporting level for the analyte 4-Chloroaniline.				
2175701002	4	DUP2-Water	SW846 7196A	Hexavalent Chromium
Analyte was analyzed past the 24 hour holding time.				
2175701002	5	DUP2-Water	SW846 9040C	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				
2175701002	6	DUP2-Water	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175701002	7	DUP2-Water	SW-846 1010A	Flashpoint/Ignitability
Sample did not flash at up to 200 degrees F				

ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Courier: Fedex
Tracking #: 784099953

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Co. Name: CB&I Environmental & Infrastructure Inc
Contact (Report to): Brian. Neumann Phone: 518-785-2354
Address: 13 British American Blvd
Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area / 154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] -Y Brian.Neumann@CBI.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs 8260C	SVOCs 8270D	PCBs 8082A	Pesticides 8081B	Herbicides 8151A	Total Metals 6010C and 7470A	Hexavalent Chromium 7196A	Reactivity (7.3.3.2) Corrosivity (9040C) Ignitability (1030)
						Enter Number of Containers Per Analysis							
1 GW-SB-3		9-15-16	~~1020~~ 1430	G	GW		2	1	1	1	1	1	1
2 DUP2-WATER		9-15-16	—	G	GW		2	1	1	1	1	1	1
3													
4													
5													
6													
7													
8													

***Container Type: CG / AG / AG / AG / AG / PL / PL / PL
***Container Size: 40 mL / 1L / 1L / 1L / 1L / 250 mL / 250 mL / 500 mL
***Preservative: HCl / None / None / None / None / HNO3 / None / None

Performed by: JMD
Cooler Temp: 2
Therm. ID: 352
No. of Coolers:
Notes:

Circle appropriate Y or N.	Container in good condition?	COC/Labels complete/accurate?	Received on ice?	(if present) Seals intact?	Custody seals Present?
Correct containers?	Y	Y	Y	N	Y
Correct sample volume?	Y	Y	Y	N	Y
Correct preservation?	Y	Y	Y	N	Y
Headspace/Volatiles?	Y	Y	Y	N	Y

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: See QAPP

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Adam Norvelle / CBI	9-15-16	1730	2 FedEx	9/16	0809
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other:
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
SEE CHRONICLE No.

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

9/13/16 0549

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

September 27, 2016

Mr. Brian Neuman
CB&I - Lantham NY
13 British American Blvd
Latham, NY 12110

Certificate of Analysis

Project Name:	**2016-MALTA NY SITE-WASTE**	Workorder:	**2175704**
Purchase Order:	**962015**	Workorder ID:	**CBR025|Rocket Fuel Area 154035**

Dear Mr. Neuman:

Enclosed are the analytical results for samples received by the laboratory on Friday, September 16, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2175704001	GW-SB-2	NY Non-Potable Water	9/15/2016 10:20	9/16/2016 09:09	Collected by Client
2175704002	GW-SB-3	NY Non-Potable Water	9/15/2016 14:30	9/16/2016 09:09	Collected by Client
2175704003	DUP2-Water	NY Non-Potable Water	9/15/2016 00:00	9/16/2016 09:09	Collected by Client
2175704004	TB13	NY Non-Potable Water	9/16/2016 09:09	9/16/2016 09:09	Collected by Client

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SAMPLE SUMMARY

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Sample Comments

Lab ID: 2175704001 **Sample ID:** GW-SB-2 **Sample Type:** SAMPLE

A positive residual chlorine result was detected in the preservation check for the volatile organics analysis of this sample. This may be due to the presence of residual chlorine or another oxidizing agent.

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ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704001** Date Collected: 9/15/2016 10:20 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-2** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		9/21/16 13:39	DD	L
Acetonitrile	20.0 U	U,1,2	ug/L	20.0	2.4	SW846 8260C		9/21/16 13:39	DD	L
Acrolein	25.0 U	U	ug/L	25.0	3.0	SW846 8260C		9/21/16 13:39	DD	L
Acrylonitrile	5.0 U	U	ug/L	5.0	1.2	SW846 8260C		9/21/16 13:39	DD	L
tert-Amyl methyl ether	1.0 U	U	ug/L	1.0	0.20	SW846 8260C		9/21/16 13:39	DD	L
Benzene	0.50 U	U	ug/L	0.50	0.19	SW846 8260C		9/21/16 13:39	DD	L
Benzyl Chloride	5.0 U	U	ug/L	5.0	0.46	SW846 8260C		9/21/16 13:39	DD	L
Bromochloromethane	1.0 U	U,8,9	ug/L	1.0	0.32	SW846 8260C		9/21/16 13:39	DD	L
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 13:39	DD	L
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		9/21/16 13:39	DD	L
Bromomethane	1.0 U	U	ug/L	1.0	0.39	SW846 8260C		9/21/16 13:39	DD	L
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		9/21/16 13:39	DD	L
tert-Butyl Alcohol	10.0 U	U	ug/L	10.0	2.2	SW846 8260C		9/21/16 13:39	DD	L
n-Butylbenzene	2.0 U	U	ug/L	2.0	0.60	SW846 8260C		9/21/16 13:39	DD	L
tert-Butylbenzene	2.0 U	U	ug/L	2.0	0.44	SW846 8260C		9/21/16 13:39	DD	L
sec-Butylbenzene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 13:39	DD	L
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 13:39	DD	L
Carbon Tetrachloride	1.2		ug/L	1.0	0.31	SW846 8260C		9/21/16 13:39	DD	L
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 13:39	DD	L
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 13:39	DD	L
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 13:39	DD	L
2-Chloroethylvinyl ether	2.0 U	U,13	ug/L	2.0	0.38	SW846 8260C		9/21/16 13:39	DD	L
Chloroform	1.7		ug/L	1.0	0.21	SW846 8260C		9/21/16 13:39	DD	L
Chloromethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 13:39	DD	L
Chloroprene	1.0 U	U	ug/L	1.0	0.49	SW846 8260C		9/21/16 13:39	DD	L
Cyclohexane	1.0 U	U,11,12	ug/L	1.0	0.29	SW846 8260C		9/21/16 13:39	DD	L
1,2-Dibromo-3-chloropropane	1.0 U	U	ug/L	1.0	0.20	SW846 8260C		9/21/16 13:39	DD	L
1,2-Dibromoethane	0.50 U	U	ug/L	0.50	0.22	SW846 8260C		9/21/16 13:39	DD	L
Dibromomethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 13:39	DD	L
trans-1,4-Dichloro-2-butene	3.0 U	U	ug/L	3.0	0.86	SW846 8260C		9/21/16 13:39	DD	L
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		9/21/16 13:39	DD	L
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 13:39	DD	L
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 13:39	DD	L
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 13:39	DD	L

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ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704001** Date Collected: 9/15/2016 10:20 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-2** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		9/21/16 13:39	DD	L
1,2-Dichloroethane	0.50 U	U	ug/L	0.50	0.18	SW846 8260C		9/21/16 13:39	DD	L
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 13:39	DD	L
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 13:39	DD	L
trans-1,2-Dichloroethene	1.0 U	U,7	ug/L	1.0	0.26	SW846 8260C		9/21/16 13:39	DD	L
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 13:39	DD	L
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 13:39	DD	L
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 13:39	DD	L
1,1-Dichloropropene	1.0 U	U,10	ug/L	1.0	0.27	SW846 8260C		9/21/16 13:39	DD	L
cis-1,3-Dichloropropene	0.50 U	U	ug/L	0.50	0.13	SW846 8260C		9/21/16 13:39	DD	L
trans-1,3-Dichloropropene	0.50 U	U	ug/L	0.50	0.13	SW846 8260C		9/21/16 13:39	DD	L
Diisopropyl ether	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 13:39	DD	L
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		9/21/16 13:39	DD	L
Ethyl Methacrylate	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 13:39	DD	L
Ethyl Acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 13:39	DD	L
Ethyl tert-butyl ether	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 13:39	DD	L
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 13:39	DD	L
Freon 113	1.0 U	U,5,6	ug/L	1.0	0.26	SW846 8260C		9/21/16 13:39	DD	L
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		9/21/16 13:39	DD	L
Isobutyl alcohol	75.0 U	U	ug/L	75.0	12.5	SW846 8260C		9/21/16 13:39	DD	L
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		9/21/16 13:39	DD	L
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 13:39	DD	L
Methacrylonitrile	2.0 U	U	ug/L	2.0	0.55	SW846 8260C		9/21/16 13:39	DD	L
Methyl methacrylate	3.0 U	U	ug/L	3.0	0.50	SW846 8260C		9/21/16 13:39	DD	L
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 13:39	DD	L
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		9/21/16 13:39	DD	L
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 13:39	DD	L
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C		9/21/16 13:39	DD	L
Methylene Chloride	1.0 U	U,3,4	ug/L	1.0	0.45	SW846 8260C		9/21/16 13:39	DD	L
Naphthalene	2.0 U	U	ug/L	2.0	0.34	SW846 8260C		9/21/16 13:39	DD	L
Propionitrile	10.0 U	U	ug/L	10.0	2.6	SW846 8260C		9/21/16 13:39	DD	L
n-Propylbenzene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 13:39	DD	L
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 13:39	DD	L
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 13:39	DD	L
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 13:39	DD	L
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 13:39	DD	L

ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704001** Date Collected: 9/15/2016 10:20 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-2** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C			9/21/16 13:39	DD	L
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C			9/21/16 13:39	DD	L
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C			9/21/16 13:39	DD	L
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C			9/21/16 13:39	DD	L
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			9/21/16 13:39	DD	L
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 13:39	DD	L
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 13:39	DD	L
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			9/21/16 13:39	DD	L
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	0.60	SW846 8260C			9/21/16 13:39	DD	L
1,2,4-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C			9/21/16 13:39	DD	L
1,3,5-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.20	SW846 8260C			9/21/16 13:39	DD	L
Vinyl Acetate	5.0 U	U	ug/L	5.0	1.6	SW846 8260C			9/21/16 13:39	DD	L
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			9/21/16 13:39	DD	L
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 13:39	DD	L
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			9/21/16 13:39	DD	L
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.5		%	62 - 133		SW846 8260C			9/21/16 13:39	DD	L
4-Bromofluorobenzene (S)	104		%	79 - 114		SW846 8260C			9/21/16 13:39	DD	L
Dibromofluoromethane (S)	96.6		%	78 - 116		SW846 8260C			9/21/16 13:39	DD	L
Toluene-d8 (S)	95.6		%	76 - 127		SW846 8260C			9/21/16 13:39	DD	L
SEMIVOLATILES											
Acenaphthene	1.5 U	U	ug/L	1.5	0.15	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Acenaphthylene	1.5 U	U	ug/L	1.5	0.20	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Acetophenone	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Aniline	3.1 U	U	ug/L	3.1	0.27	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Anthracene	1.5 U	U	ug/L	1.5	0.15	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Atrazine	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Benzaldehyde	3.1 U	U	ug/L	3.1	0.27	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Benzidine	8.2 U	U,22	ug/L	8.2	3.2	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Benzo(a)anthracene	1.5 U	U	ug/L	1.5	0.13	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Benzo(a)pyrene	1.5 U	U	ug/L	1.5	0.23	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Benzo(b)fluoranthene	1.5 U	U	ug/L	1.5	0.11	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Benzo(g,h,i)perylene	1.5 U	U	ug/L	1.5	0.23	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Benzoic acid	6.2 U	U,21	ug/L	6.2	0.48	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Benzo(k)fluoranthene	1.5 U	U	ug/L	1.5	0.20	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Benzyl Alcohol	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	

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ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704001** Date Collected: 9/15/2016 10:20 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-2** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Biphenyl	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
4-Bromophenyl-phenylether	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Butylbenzylphthalate	3.1 U	U	ug/L	3.1	0.11	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Caprolactam	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Carbazole	3.1 U	U	ug/L	3.1	0.12	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
4-Chloro-3-methylphenol	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
4-Chloroaniline	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
bis(2-Chloroethoxy)methane	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
bis(2-Chloroethyl)ether	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
bis(2-Chloroisopropyl)ether	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2-Chloronaphthalene	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2-Chlorophenol	3.1 U	U	ug/L	3.1	0.34	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
4-Chlorophenyl-phenylether	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Chrysene	1.5 U	U	ug/L	1.5	0.12	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
mp-Cresol	3.1 U	U	ug/L	3.1	0.15	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
o-Cresol	3.1 U	U	ug/L	3.1	0.26	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Di-n-Butylphthalate	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Di-n-Octylphthalate	3.1 U	U	ug/L	3.1	0.10	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Dibenzo(a,h)anthracene	1.5 U	U	ug/L	1.5	0.22	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Dibenzofuran	3.1 U	U	ug/L	3.1	0.11	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
1,2-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.21	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
1,3-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
1,4-Dichlorobenzene	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
3,3-Dichlorobenzidine	3.1 U	U	ug/L	3.1	0.49	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2,4-Dichlorophenol	3.1 U	U	ug/L	3.1	0.33	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2,6-Dichlorophenol	3.1 U	U	ug/L	3.1	0.55	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Diethylphthalate	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Dimethoate	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2,4-Dimethylphenol	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Dimethylphthalate	3.1 U	U	ug/L	3.1	0.14	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
1,3-Dinitrobenzene	3.1 U	U	ug/L	3.1	0.28	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2,4-Dinitrophenol	6.2 U	U	ug/L	6.2	1.9	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2,4-Dinitrotoluene	3.1 U	U	ug/L	3.1	0.12	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2,6-Dinitrotoluene	3.1 U	U	ug/L	3.1	0.22	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Diphenylamine	3.1 U	U	ug/L	3.1	0.16	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
bis(2-Ethylhexyl)phthalate	3.1 U	U	ug/L	3.1	0.23	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Fluoranthene	1.5 U	U	ug/L	1.5	0.18	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Fluorene	1.5 U	U	ug/L	1.5	0.21	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	

ALS Environmental

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704001** Date Collected: 9/15/2016 10:20 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-2** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobenzene	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Hexachlorobutadiene	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Hexachlorocyclopentadiene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Hexachloroethane	3.1 U	U	ug/L	3.1	0.31	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Indeno(1,2,3-cd)pyrene	1.5 U	U	ug/L	1.5	0.10	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Isophorone	3.1 U	U	ug/L	3.1	0.15	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2-Methyl-4,6-dinitrophenol	6.2 U	U	ug/L	6.2	0.34	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2-Methylnaphthalene	1.5 U	U	ug/L	1.5	0.16	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2-Naphthylamine	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Naphthalene	1.5 U	U	ug/L	1.5	0.12	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2-Nitroaniline	3.1 U	U	ug/L	3.1	0.21	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
3-Nitroaniline	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
4-Nitroaniline	3.1 U	U	ug/L	3.1	0.42	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Nitrobenzene	3.1 U	U	ug/L	3.1	0.29	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2-Nitrophenol	3.1 U	U	ug/L	3.1	0.46	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
4-Nitrophenol	3.1 U	U	ug/L	3.1	1.1	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
N-Nitrosodi-n-butylamine	3.1 U	U	ug/L	3.1	0.28	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
N-Nitrosodiethylamine	3.1 U	U	ug/L	3.1	0.26	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
N-Nitrosodimethylamine	3.1 U	U	ug/L	3.1	0.66	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
N-Nitroso-di-n-propylamine	3.1 U	U	ug/L	3.1	0.25	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
N-Nitrosodiphenylamine	3.1 U	U	ug/L	3.1	0.19	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
N-Nitrosopyrrolidine	3.1 U	U	ug/L	3.1	0.24	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Pentachlorobenzene	3.1 U	U	ug/L	3.1	0.18	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Pentachlorophenol	6.2 U	U	ug/L	6.2	1.1	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Phenanthrene	1.5 U	U	ug/L	1.5	0.13	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Phenol	8.2 U	U	ug/L	8.2	0.24	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Pyrene	1.5 U	U	ug/L	1.5	0.16	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Pyridine	3.1 U	U	ug/L	3.1	0.34	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
1,2,4,5-Tetrachlorobenzene	3.1 U	U	ug/L	3.1	0.20	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2,3,4,6-Tetrachlorophenol	3.1 U	U	ug/L	3.1	0.49	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
1,2,4-Trichlorobenzene	3.1 U	U	ug/L	3.1	0.13	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2,4,5-Trichlorophenol	3.1 U	U	ug/L	3.1	0.57	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2,4,6-Trichlorophenol	3.1 U	U	ug/L	3.1	0.59	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	100		%	47 - 128	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2-Fluorobiphenyl (S)	83.4		%	52 - 118	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
2-Fluorophenol (S)	59.6		%	20 - 87	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Nitrobenzene-d5 (S)	80		%	27 - 139	SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	

ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704001** Date Collected: 9/15/2016 10:20 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-2** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Phenol-d5 (S)	35.2		%	10 - 81		SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
Terphenyl-d14 (S)	99.2		%	46 - 133		SW846 8270D	9/21/16 11:05	CAC	9/22/16 03:36	DHF	
PCBs											
Aroclor-1016	0.051 U	U	ug/L	0.051	0.012	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:52	EGO	
Aroclor-1221	0.051 U	U	ug/L	0.051	0.014	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:52	EGO	
Aroclor-1232	0.051 U	U	ug/L	0.051	0.038	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:52	EGO	
Aroclor-1242	0.051 U	U	ug/L	0.051	0.048	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:52	EGO	
Aroclor-1248	0.051 U	U	ug/L	0.051	0.028	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:52	EGO	
Aroclor-1254	0.051 U	U	ug/L	0.051	0.020	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:52	EGO	
Aroclor-1260	0.051 U	U	ug/L	0.051	0.014	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:52	EGO	
Aroclor-1262	0.051 U	U	ug/L	0.051	0.020	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:52	EGO	
Aroclor-1268	0.051 U	U	ug/L	0.051	0.034	SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:52	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	80		%	30 - 140		SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:52	EGO	
Tetrachloro-m-xylene (S)	64.3		%	30 - 133		SW846 8082A	9/21/16 16:35	PDK	9/23/16 09:52	EGO	
PESTICIDES											
Aldrin	0.020 U	U	ug/L	0.020	0.0051	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
alpha-BHC	0.020 U	U	ug/L	0.020	0.0020	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
beta-BHC	0.020 U	U	ug/L	0.020	0.0082	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
delta-BHC	0.020 U	U	ug/L	0.020	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
gamma-BHC	0.020 U	U	ug/L	0.020	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
alpha-Chlordane	0.020 U	U	ug/L	0.020	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
gamma-Chlordane	0.020 U	U	ug/L	0.020	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
4,4'-DDD	0.020 U	U	ug/L	0.020	0.0071	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
4,4'-DDE	0.020 U	U	ug/L	0.020	0.0071	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
4,4'-DDT	0.020 U	U	ug/L	0.020	0.0061	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Dieldrin	0.020 U	U	ug/L	0.020	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Endosulfan I	0.020 U	U	ug/L	0.020	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Endosulfan II	0.020 U	U	ug/L	0.020	0.0061	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Endosulfan Sulfate	0.020 U	U	ug/L	0.020	0.0041	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Endrin	0.020 U	U	ug/L	0.020	0.0082	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Endrin Aldehyde	0.020 U	U	ug/L	0.020	0.010	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Endrin Ketone	0.020 U	U	ug/L	0.020	0.0041	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Heptachlor	0.020 U	U	ug/L	0.020	0.0031	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Heptachlor Epoxide	0.020 U	U	ug/L	0.020	0.0041	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Methoxychlor	0.020 U	U	ug/L	0.020	0.0092	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Toxaphene	1.0 U	U	ug/L	1.0	0.19	SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A

ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704001** Date Collected: 9/15/2016 10:20 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-2** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	79.5		%	30 - 140		SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
Tetrachloro-m-xylene (S)	66.6		%	30 - 123		SW846 8081B	9/20/16 09:40	LEH	9/22/16 00:26	RWS	A
HERBICIDES											
2,4-D	0.20 U	U	ug/L	0.20	0.025	SW846 8151A			9/21/16 00:33	KJH	S
2,4-DB	0.30 U	U	ug/L	0.30	0.046	SW846 8151A			9/21/16 00:33	KJH	S
Dalapon	1.0 U	U	ug/L	1.0	0.036	SW846 8151A			9/21/16 00:33	KJH	S
Dicamba	0.20 U	U	ug/L	0.20	0.046	SW846 8151A			9/21/16 00:33	KJH	S
Dichloroprop	0.50 U	U	ug/L	0.50	0.055	SW846 8151A			9/21/16 00:33	KJH	S
Dinoseb	5.0 U	U	ug/L	5.0	0.14	SW846 8151A			9/21/16 00:33	KJH	S
Pentachlorophenol	0.20 U	U	ug/L	0.20	0.020	SW846 8151A			9/21/16 00:33	KJH	S
2,4,5-T	0.20 U	U	ug/L	0.20	0.039	SW846 8151A			9/21/16 00:33	KJH	S
2,4,5-TP	0.30 U	U	ug/L	0.30	0.023	SW846 8151A			9/21/16 00:33	KJH	S
WET CHEMISTRY											
Corrosivity as pH	7.88	18	pH_Units			SW846 9040C			9/20/16 01:51	MSA	V
Cyanide, Reactive	10 U	U	ppm	10	0.011	SW-846 7.3CN	9/21/16 11:30	AHI	9/22/16 08:11	CTD	Y
Flashpoint/Ignitability	See comments	19,20	Deg. F			SW-846 1010A			9/22/16 10:05	AXC	Y
Hexavalent Chromium	0.010 U	U,17	mg/L	0.010	0.0025	SW846 7196A			9/17/16 03:18	MSA	V
Sulfide, Reactive	3.2J	J	ppm	6.2	1.2	SW846 7.3	9/21/16 11:30	AHI	9/21/16 18:00	AHI	Y
METALS											
Aluminum, Total	0.39		mg/L	0.11	0.036	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Antimony, Total	0.022 U	U	mg/L	0.022	0.010	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Arsenic, Total	0.0090 U	U	mg/L	0.0090	0.0030	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Barium, Total	0.0064J	J	mg/L	0.011	0.0036	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Beryllium, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Cadmium, Total	0.0022 U	U	mg/L	0.0022	0.00073	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Calcium, Total	12.9		mg/L	0.11	0.036	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Chromium, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Cobalt, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Copper, Total	0.011 U	U	mg/L	0.011	0.0036	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Iron, Total	0.55		mg/L	0.067	0.022	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Lead, Total	0.0067 U	U	mg/L	0.0067	0.0022	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Magnesium, Total	1.1		mg/L	0.11	0.036	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Manganese, Total	0.17		mg/L	0.0056	0.0020	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c

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ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704001** Date Collected: 9/15/2016 10:20 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-2** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Mercury, Total	0.00050 U	U	mg/L	0.00050	0.00017	SW846 7470A	9/22/16 00:45	MNP	9/22/16 10:00	MNP	d
Nickel, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Potassium, Total	0.83		mg/L	0.56	0.18	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Selenium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Silver, Total	0.0044 U	U	mg/L	0.0044	0.0014	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Sodium, Total	23.8		mg/L	0.56	0.18	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Thallium, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Vanadium, Total	0.0056 U	U	mg/L	0.0056	0.0020	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c
Zinc, Total	0.022 U	U	mg/L	0.022	0.0073	SW846 6010C	9/21/16 11:50	JPS	9/22/16 08:30	SRT	c

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704002** Date Collected: 9/15/2016 14:30 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-3** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Acetone	3.7J	J	ug/L	10.0	3.1	SW846 8260C		9/21/16 14:23	DD	A
Acetonitrile	20.0 U	U	ug/L	20.0	2.4	SW846 8260C		9/21/16 14:23	DD	A
Acrolein	25.0 U	U	ug/L	25.0	3.0	SW846 8260C		9/21/16 14:23	DD	A
Acrylonitrile	5.0 U	U	ug/L	5.0	1.2	SW846 8260C		9/21/16 14:23	DD	A
tert-Amyl methyl ether	1.0 U	U	ug/L	1.0	0.20	SW846 8260C		9/21/16 14:23	DD	A
Benzene	0.50 U	U	ug/L	0.50	0.19	SW846 8260C		9/21/16 14:23	DD	A
Benzyl Chloride	5.0 U	U	ug/L	5.0	0.46	SW846 8260C		9/21/16 14:23	DD	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:23	DD	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:23	DD	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		9/21/16 14:23	DD	A
Bromomethane	1.0 U	U	ug/L	1.0	0.39	SW846 8260C		9/21/16 14:23	DD	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		9/21/16 14:23	DD	A
tert-Butyl Alcohol	10.0 U	U	ug/L	10.0	2.2	SW846 8260C		9/21/16 14:23	DD	A
n-Butylbenzene	2.0 U	U	ug/L	2.0	0.60	SW846 8260C		9/21/16 14:23	DD	A
tert-Butylbenzene	2.0 U	U	ug/L	2.0	0.44	SW846 8260C		9/21/16 14:23	DD	A
sec-Butylbenzene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:23	DD	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 14:23	DD	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:23	DD	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 14:23	DD	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 14:23	DD	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:23	DD	A
2-Chloroethylvinyl ether	2.0 U	U	ug/L	2.0	0.38	SW846 8260C		9/21/16 14:23	DD	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		9/21/16 14:23	DD	A
Chloromethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:23	DD	A
Chloroprene	1.0 U	U	ug/L	1.0	0.49	SW846 8260C		9/21/16 14:23	DD	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 14:23	DD	A
1,2-Dibromo-3-chloropropane	1.0 U	U	ug/L	1.0	0.20	SW846 8260C		9/21/16 14:23	DD	A
1,2-Dibromoethane	0.50 U	U	ug/L	0.50	0.22	SW846 8260C		9/21/16 14:23	DD	A
Dibromomethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:23	DD	A
trans-1,4-Dichloro-2-butene	3.0 U	U	ug/L	3.0	0.86	SW846 8260C		9/21/16 14:23	DD	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		9/21/16 14:23	DD	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 14:23	DD	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:23	DD	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:23	DD	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		9/21/16 14:23	DD	A
1,2-Dichloroethane	0.50 U	U	ug/L	0.50	0.18	SW846 8260C		9/21/16 14:23	DD	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704002** Date Collected: 9/15/2016 14:30 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-3** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 14:23	DD	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:23	DD	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		9/21/16 14:23	DD	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:23	DD	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:23	DD	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 14:23	DD	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:23	DD	A
cis-1,3-Dichloropropene	0.50 U	U	ug/L	0.50	0.13	SW846 8260C		9/21/16 14:23	DD	A
trans-1,3-Dichloropropene	0.50 U	U	ug/L	0.50	0.13	SW846 8260C		9/21/16 14:23	DD	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 14:23	DD	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		9/21/16 14:23	DD	A
Ethyl Methacrylate	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:23	DD	A
Ethyl Acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 14:23	DD	A
Ethyl tert-butyl ether	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 14:23	DD	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 14:23	DD	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		9/21/16 14:23	DD	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		9/21/16 14:23	DD	A
Isobutyl alcohol	75.0 U	U	ug/L	75.0	12.5	SW846 8260C		9/21/16 14:23	DD	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		9/21/16 14:23	DD	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:23	DD	A
Methacrylonitrile	2.0 U	U	ug/L	2.0	0.55	SW846 8260C		9/21/16 14:23	DD	A
Methyl methacrylate	3.0 U	U	ug/L	3.0	0.50	SW846 8260C		9/21/16 14:23	DD	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 14:23	DD	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		9/21/16 14:23	DD	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:23	DD	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C		9/21/16 14:23	DD	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 14:23	DD	A
Naphthalene	2.0 U	U	ug/L	2.0	0.34	SW846 8260C		9/21/16 14:23	DD	A
Propionitrile	10.0 U	U	ug/L	10.0	2.6	SW846 8260C		9/21/16 14:23	DD	A
n-Propylbenzene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:23	DD	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 14:23	DD	A
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 14:23	DD	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 14:23	DD	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 14:23	DD	A
Toluene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 14:23	DD	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C		9/21/16 14:23	DD	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C		9/21/16 14:23	DD	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C		9/21/16 14:23	DD	A

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ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704002** Date Collected: 9/15/2016 14:30 Matrix: NY Non-Potable Water

Sample ID: **GW-SB-3** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			9/21/16 14:23	DD	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 14:23	DD	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 14:23	DD	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			9/21/16 14:23	DD	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	0.60	SW846 8260C			9/21/16 14:23	DD	A
1,2,4-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C			9/21/16 14:23	DD	A
1,3,5-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.20	SW846 8260C			9/21/16 14:23	DD	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	1.6	SW846 8260C			9/21/16 14:23	DD	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			9/21/16 14:23	DD	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 14:23	DD	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			9/21/16 14:23	DD	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	100		%	62 - 133	SW846 8260C			9/21/16 14:23	DD	A
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260C			9/21/16 14:23	DD	A
Dibromofluoromethane (S)	99.3		%	78 - 116	SW846 8260C			9/21/16 14:23	DD	A
Toluene-d8 (S)	95.6		%	76 - 127	SW846 8260C			9/21/16 14:23	DD	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704003** Date Collected: 9/15/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **DUP2-Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	*Cntr*
VOLATILE ORGANICS										
Acetone	3.2J	J	ug/L	10.0	3.1	SW846 8260C		9/21/16 14:45	DD	A
Acetonitrile	20.0 U	U	ug/L	20.0	2.4	SW846 8260C		9/21/16 14:45	DD	A
Acrolein	25.0 U	U	ug/L	25.0	3.0	SW846 8260C		9/21/16 14:45	DD	A
Acrylonitrile	5.0 U	U	ug/L	5.0	1.2	SW846 8260C		9/21/16 14:45	DD	A
tert-Amyl methyl ether	1.0 U	U	ug/L	1.0	0.20	SW846 8260C		9/21/16 14:45	DD	A
Benzene	0.50 U	U	ug/L	0.50	0.19	SW846 8260C		9/21/16 14:45	DD	A
Benzyl Chloride	5.0 U	U	ug/L	5.0	0.46	SW846 8260C		9/21/16 14:45	DD	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:45	DD	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:45	DD	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		9/21/16 14:45	DD	A
Bromomethane	1.0 U	U	ug/L	1.0	0.39	SW846 8260C		9/21/16 14:45	DD	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		9/21/16 14:45	DD	A
tert-Butyl Alcohol	10.0 U	U	ug/L	10.0	2.2	SW846 8260C		9/21/16 14:45	DD	A
n-Butylbenzene	2.0 U	U	ug/L	2.0	0.60	SW846 8260C		9/21/16 14:45	DD	A
tert-Butylbenzene	2.0 U	U	ug/L	2.0	0.44	SW846 8260C		9/21/16 14:45	DD	A
sec-Butylbenzene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:45	DD	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 14:45	DD	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:45	DD	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 14:45	DD	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 14:45	DD	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:45	DD	A
2-Chloroethylvinyl ether	2.0 U	U	ug/L	2.0	0.38	SW846 8260C		9/21/16 14:45	DD	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		9/21/16 14:45	DD	A
Chloromethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:45	DD	A
Chloroprene	1.0 U	U	ug/L	1.0	0.49	SW846 8260C		9/21/16 14:45	DD	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 14:45	DD	A
1,2-Dibromo-3-chloropropane	1.0 U	U	ug/L	1.0	0.20	SW846 8260C		9/21/16 14:45	DD	A
1,2-Dibromoethane	0.50 U	U	ug/L	0.50	0.22	SW846 8260C		9/21/16 14:45	DD	A
Dibromomethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 14:45	DD	A
trans-1,4-Dichloro-2-butene	3.0 U	U	ug/L	3.0	0.86	SW846 8260C		9/21/16 14:45	DD	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		9/21/16 14:45	DD	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 14:45	DD	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:45	DD	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:45	DD	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		9/21/16 14:45	DD	A
1,2-Dichloroethane	0.50 U	U	ug/L	0.50	0.18	SW846 8260C		9/21/16 14:45	DD	A

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ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704003** Date Collected: 9/15/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **DUP2-Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 14:45	DD	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:45	DD	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		9/21/16 14:45	DD	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:45	DD	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:45	DD	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 14:45	DD	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 14:45	DD	A
cis-1,3-Dichloropropene	0.50 U	U	ug/L	0.50	0.13	SW846 8260C		9/21/16 14:45	DD	A
trans-1,3-Dichloropropene	0.50 U	U	ug/L	0.50	0.13	SW846 8260C		9/21/16 14:45	DD	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 14:45	DD	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		9/21/16 14:45	DD	A
Ethyl Methacrylate	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:45	DD	A
Ethyl Acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 14:45	DD	A
Ethyl tert-butyl ether	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 14:45	DD	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 14:45	DD	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		9/21/16 14:45	DD	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		9/21/16 14:45	DD	A
Isobutyl alcohol	75.0 U	U	ug/L	75.0	12.5	SW846 8260C		9/21/16 14:45	DD	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		9/21/16 14:45	DD	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 14:45	DD	A
Methacrylonitrile	2.0 U	U	ug/L	2.0	0.55	SW846 8260C		9/21/16 14:45	DD	A
Methyl methacrylate	3.0 U	U	ug/L	3.0	0.50	SW846 8260C		9/21/16 14:45	DD	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 14:45	DD	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		9/21/16 14:45	DD	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:45	DD	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C		9/21/16 14:45	DD	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 14:45	DD	A
Naphthalene	2.0 U	U	ug/L	2.0	0.34	SW846 8260C		9/21/16 14:45	DD	A
Propionitrile	10.0 U	U	ug/L	10.0	2.6	SW846 8260C		9/21/16 14:45	DD	A
n-Propylbenzene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 14:45	DD	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 14:45	DD	A
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 14:45	DD	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 14:45	DD	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 14:45	DD	A
Toluene	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 14:45	DD	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C		9/21/16 14:45	DD	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C		9/21/16 14:45	DD	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C		9/21/16 14:45	DD	A

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ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704003** Date Collected: 9/15/2016 00:00 Matrix: NY Non-Potable Water

Sample ID: **DUP2-Water** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			9/21/16 14:45	DD	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 14:45	DD	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 14:45	DD	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			9/21/16 14:45	DD	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	0.60	SW846 8260C			9/21/16 14:45	DD	A
1,2,4-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C			9/21/16 14:45	DD	A
1,3,5-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.20	SW846 8260C			9/21/16 14:45	DD	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	1.6	SW846 8260C			9/21/16 14:45	DD	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			9/21/16 14:45	DD	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 14:45	DD	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			9/21/16 14:45	DD	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	62 - 133	SW846 8260C			9/21/16 14:45	DD	A
4-Bromofluorobenzene (S)	106		%	79 - 114	SW846 8260C			9/21/16 14:45	DD	A
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260C			9/21/16 14:45	DD	A
Toluene-d8 (S)	98.5		%	76 - 127	SW846 8260C			9/21/16 14:45	DD	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704004** Date Collected: 9/16/2016 09:09 Matrix: NY Non-Potable Water

Sample ID: **TB13** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	10.0 U	U	ug/L	10.0	3.1	SW846 8260C		9/21/16 13:16	DD	A
Acetonitrile	20.0 U	U	ug/L	20.0	2.4	SW846 8260C		9/21/16 13:16	DD	A
Acrolein	25.0 U	U	ug/L	25.0	3.0	SW846 8260C		9/21/16 13:16	DD	A
Acrylonitrile	5.0 U	U	ug/L	5.0	1.2	SW846 8260C		9/21/16 13:16	DD	A
tert-Amyl methyl ether	1.0 U	U	ug/L	1.0	0.20	SW846 8260C		9/21/16 13:16	DD	A
Benzene	0.50 U	U	ug/L	0.50	0.19	SW846 8260C		9/21/16 13:16	DD	A
Benzyl Chloride	5.0 U	U	ug/L	5.0	0.46	SW846 8260C		9/21/16 13:16	DD	A
Bromochloromethane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 13:16	DD	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 13:16	DD	A
Bromoform	1.0 U	U	ug/L	1.0	0.40	SW846 8260C		9/21/16 13:16	DD	A
Bromomethane	1.0 U	U	ug/L	1.0	0.39	SW846 8260C		9/21/16 13:16	DD	A
2-Butanone	10.0 U	U	ug/L	10.0	1.8	SW846 8260C		9/21/16 13:16	DD	A
tert-Butyl Alcohol	10.0 U	U	ug/L	10.0	2.2	SW846 8260C		9/21/16 13:16	DD	A
n-Butylbenzene	2.0 U	U	ug/L	2.0	0.60	SW846 8260C		9/21/16 13:16	DD	A
tert-Butylbenzene	2.0 U	U	ug/L	2.0	0.44	SW846 8260C		9/21/16 13:16	DD	A
sec-Butylbenzene	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 13:16	DD	A
Carbon Disulfide	1.0 U	U	ug/L	1.0	0.23	SW846 8260C		9/21/16 13:16	DD	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 13:16	DD	A
Chlorobenzene	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 13:16	DD	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 13:16	DD	A
Chloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 13:16	DD	A
2-Chloroethylvinyl ether	2.0 U	U	ug/L	2.0	0.38	SW846 8260C		9/21/16 13:16	DD	A
Chloroform	1.0 U	U	ug/L	1.0	0.21	SW846 8260C		9/21/16 13:16	DD	A
Chloromethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 13:16	DD	A
Chloroprene	1.0 U	U	ug/L	1.0	0.49	SW846 8260C		9/21/16 13:16	DD	A
Cyclohexane	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 13:16	DD	A
1,2-Dibromo-3-chloropropane	1.0 U	U	ug/L	1.0	0.20	SW846 8260C		9/21/16 13:16	DD	A
1,2-Dibromoethane	0.50 U	U	ug/L	0.50	0.22	SW846 8260C		9/21/16 13:16	DD	A
Dibromomethane	1.0 U	U	ug/L	1.0	0.31	SW846 8260C		9/21/16 13:16	DD	A
trans-1,4-Dichloro-2-butene	3.0 U	U	ug/L	3.0	0.86	SW846 8260C		9/21/16 13:16	DD	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.38	SW846 8260C		9/21/16 13:16	DD	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 13:16	DD	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 13:16	DD	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 13:16	DD	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	0.28	SW846 8260C		9/21/16 13:16	DD	A
1,2-Dichloroethane	0.50 U	U	ug/L	0.50	0.18	SW846 8260C		9/21/16 13:16	DD	A

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ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704004** Date Collected: 9/16/2016 09:09 Matrix: NY Non-Potable Water

Sample ID: **TB13** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	0.29	SW846 8260C		9/21/16 13:16	DD	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 13:16	DD	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		9/21/16 13:16	DD	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 13:16	DD	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 13:16	DD	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 13:16	DD	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	0.27	SW846 8260C		9/21/16 13:16	DD	A
cis-1,3-Dichloropropene	0.50 U	U	ug/L	0.50	0.13	SW846 8260C		9/21/16 13:16	DD	A
trans-1,3-Dichloropropene	0.50 U	U	ug/L	0.50	0.13	SW846 8260C		9/21/16 13:16	DD	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	0.25	SW846 8260C		9/21/16 13:16	DD	A
1,4-Dioxane	320 U	U	ug/L	320	58.9	SW846 8260C		9/21/16 13:16	DD	A
Ethyl Methacrylate	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 13:16	DD	A
Ethyl Acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 13:16	DD	A
Ethyl tert-butyl ether	1.0 U	U	ug/L	1.0	0.19	SW846 8260C		9/21/16 13:16	DD	A
Ethylbenzene	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 13:16	DD	A
Freon 113	1.0 U	U	ug/L	1.0	0.26	SW846 8260C		9/21/16 13:16	DD	A
2-Hexanone	5.0 U	U	ug/L	5.0	1.3	SW846 8260C		9/21/16 13:16	DD	A
Isobutyl alcohol	75.0 U	U	ug/L	75.0	12.5	SW846 8260C		9/21/16 13:16	DD	A
Isopropylbenzene	1.0 U	U	ug/L	1.0	0.22	SW846 8260C		9/21/16 13:16	DD	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	0.32	SW846 8260C		9/21/16 13:16	DD	A
Methacrylonitrile	2.0 U	U	ug/L	2.0	0.55	SW846 8260C		9/21/16 13:16	DD	A
Methyl methacrylate	3.0 U	U	ug/L	3.0	0.50	SW846 8260C		9/21/16 13:16	DD	A
Methyl acetate	2.0 U	U	ug/L	2.0	0.32	SW846 8260C		9/21/16 13:16	DD	A
Methyl cyclohexane	1.0 U	U	ug/L	1.0	0.30	SW846 8260C		9/21/16 13:16	DD	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 13:16	DD	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	1.5	SW846 8260C		9/21/16 13:16	DD	A
Methylene Chloride	1.0 U	U	ug/L	1.0	0.45	SW846 8260C		9/21/16 13:16	DD	A
Naphthalene	2.0 U	U	ug/L	2.0	0.34	SW846 8260C		9/21/16 13:16	DD	A
Propionitrile	10.0 U	U	ug/L	10.0	2.6	SW846 8260C		9/21/16 13:16	DD	A
n-Propylbenzene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C		9/21/16 13:16	DD	A
Styrene	1.0 U	U	ug/L	1.0	0.24	SW846 8260C		9/21/16 13:16	DD	A
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 13:16	DD	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	0.34	SW846 8260C		9/21/16 13:16	DD	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	0.35	SW846 8260C		9/21/16 13:16	DD	A
Toluene	0.45J	J	ug/L	1.0	0.23	SW846 8260C		9/21/16 13:16	DD	A
Total Xylenes	3.0 U	U	ug/L	3.0	0.66	SW846 8260C		9/21/16 13:16	DD	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.93	SW846 8260C		9/21/16 13:16	DD	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	0.82	SW846 8260C		9/21/16 13:16	DD	A

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ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

Lab ID: **2175704004** Date Collected: 9/16/2016 09:09 Matrix: NY Non-Potable Water

Sample ID: **TB13** Date Received: 9/16/2016 09:09

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	0.22	SW846 8260C			9/21/16 13:16	DD	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 13:16	DD	A
Trichloroethene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 13:16	DD	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	0.24	SW846 8260C			9/21/16 13:16	DD	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	0.60	SW846 8260C			9/21/16 13:16	DD	A
1,2,4-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.25	SW846 8260C			9/21/16 13:16	DD	A
1,3,5-Trimethylbenzene	1.0 U	U	ug/L	1.0	0.20	SW846 8260C			9/21/16 13:16	DD	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	1.6	SW846 8260C			9/21/16 13:16	DD	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	0.30	SW846 8260C			9/21/16 13:16	DD	A
o-Xylene	1.0 U	U	ug/L	1.0	0.33	SW846 8260C			9/21/16 13:16	DD	A
mp-Xylene	2.0 U	U	ug/L	2.0	0.52	SW846 8260C			9/21/16 13:16	DD	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.1		%	62 - 133	SW846 8260C			9/21/16 13:16	DD	A
4-Bromofluorobenzene (S)	106		%	79 - 114	SW846 8260C			9/21/16 13:16	DD	A
Dibromofluoromethane (S)	96.4		%	78 - 116	SW846 8260C			9/21/16 13:16	DD	A
Toluene-d8 (S)	96.5		%	76 - 127	SW846 8260C			9/21/16 13:16	DD	A

Vicki Forney

Mrs. Vicki A. Forney
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2175704001	1	GW-SB-2	SW846 8260C	Acetonitrile
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Acetonitrile. The % Recovery was reported as 136 and the control limits were 19 to 130.				
2175704001	2	GW-SB-2	SW846 8260C	Acetonitrile
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Acetonitrile. The % Recovery was reported as 136 and the control limits were 19 to 130.				
2175704001	3	GW-SB-2	SW846 8260C	Methylene Chloride
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 122 and the control limits were 76 to 121.				
2175704001	4	GW-SB-2	SW846 8260C	Methylene Chloride
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 125 and the control limits were 76 to 121.				
2175704001	5	GW-SB-2	SW846 8260C	Freon 113
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 135 and the control limits were 50 to 130.				
2175704001	6	GW-SB-2	SW846 8260C	Freon 113
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 140 and the control limits were 50 to 130.				
2175704001	7	GW-SB-2	SW846 8260C	trans-1,2-Dichloroethene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte trans-1,2-Dichloroethene. The % Recovery was reported as 125 and the control limits were 71 to 122.				
2175704001	8	GW-SB-2	SW846 8260C	Bromochloromethane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Bromochloromethane. The % Recovery was reported as 129 and the control limits were 73 to 117.				
2175704001	9	GW-SB-2	SW846 8260C	Bromochloromethane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Bromochloromethane. The % Recovery was reported as 130 and the control limits were 73 to 117.				
2175704001	10	GW-SB-2	SW846 8260C	1,1-Dichloropropene
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 1,1-Dichloropropene. The % Recovery was reported as 129 and the control limits were 76 to 126.				
2175704001	11	GW-SB-2	SW846 8260C	Cyclohexane
The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 137 and the control limits were 66 to 130.				
2175704001	12	GW-SB-2	SW846 8260C	Cyclohexane
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 142 and the control limits were 66 to 130.				
2175704001	13	GW-SB-2	SW846 8260C	2-Chloroethylvinyl ether
The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte 2-Chloroethylvinyl ether. The RPD was reported as 69.6 and the upper control limit is 40.				
2175704001	17	GW-SB-2	SW846 7196A	Hexavalent Chromium
Analyte was analyzed past the 24 hour holding time.				
2175704001	18	GW-SB-2	SW846 9040C	Corrosivity as pH
The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.				
2175704001	19	GW-SB-2	SW-846 1010A	Flashpoint/Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
2175704001	20	GW-SB-2	SW-846 1010A	Flashpoint/Ignitability
Sample did not flash at up to 200 degrees F				

ANALYTICAL RESULTS

Workorder: 2175704 CBR025|Rocket Fuel Area 154035

2175704001	21	GW-SB-2	SW846 8270D	Benzoic acid

The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzoic acid. The RPD was reported as 37.3 and the upper control limit is 30.

2175704001	22	GW-SB-2	SW846 8270D	Benzidine

The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Benzidine. The RPD was reported as 30.4 and the upper control limit is 30.

ALS Environmental
34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Courier: Fedex
Tracking #: 184099953005

2175704

Co. Name: CB&I Environmental & Infrastructure Inc.
Contact (Report to): Brian Neumann Phone: 518-785-2354
Address: 13 British American Blvd Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area/154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] Y Brian.Neumann@CBI.com
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis									
						***Container Type	CG	AG	AG	AG	AG	PL	PL	PL	
						***Container Size	40mL	1L	1L	1L	1L	250mL	250mL	500mL	
						*** Preservative	HCl	None	None	None	None	HNO_3	None	None	
						ANALYSES/METHOD REQUESTED		VOCs 8260C	SVOCs 8270D	PCBs 8082A	Pesticides	Herbicides	Total Metals 6010C and 7470A	Hexavalent Chromium 7196A	Reactivity (7.3.3.2) Corrosivity (9040C) Ignitability (1030)
1 GW-SB-2 MS		9-15-16	1020	G	GW		3	2	1	1	1	1	1	1	
2 GW-SB-2 MSD			1020	G	GW		3	2	1	1	1	1	1	1	
3 GW-SB-2			1020	G	GW		3	See attached COC 9/19/16							
4 GW-SB-3			1430	G	GW		3								
5 DUP2-WATER			—	G	GW		3								
6 TB13		↓	—	—	—		3								
7															
8															

Performed by: JMW
Cooler Temp: 2
Therm. ID: 352
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	Y N	Y N	Y N	Y N	

	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
	Y N	Y N	Y N	Y N	Y N

SAMPLED BY (Please Print): Adam Norrelle

Project Comments: See QAPP

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Adam Norrelle CBI	9-15-16	1730	2 FedEx	9/16/16	0909
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Other
⇨ Enter PWSID No

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 01-2013

9/16/0851

Tuesday, September 27, 2016 11:52:36 AM
Page 25 of 25

IAF

ALS Environmental

34 Dogwood Lane
Middletown, PA 17057
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F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1

Courier: Fedex

Tracking #: 784099953598

COC#

Co. Name: CB&I Environmental & Infrastructure Inc

Contact (Report to): Brian Neumann Phone: 518-785-2354

Address: 13 British American Blvd
Latham, NY 12110

Bill to (if different than Report to): PO#:

Project Name/#: Malta Rocket Fuel Area/154035 ALS Quote #:

TAT: [ ] Normal-Standard TAT is 10-12 business days. Date Required:
[X] Rush-Subject to ALS approval and surcharges. 5-day Approved By:

Email? [X] Y Brian.Neumann@CBI.com
Fax? [ ] Y No.:

	***Container Type	***Container Size	*** Preservative
	CG	AG	AG	AG	AG	PL	PL	PL		
	40mL	1L	1L	1L	1L	250mL	250mL	500mL		
	HCl	None	None	None	None	HNO_3	None	None		

ANALYSES/METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs 8260C	SVOCs 8270D	PCBs 8082A	Pesticides 8081B	Herbicides 8151A	Total Metals 6010C and 7470A	Hexavalent Chromium 7196A	Reactivity (7.3/7.3.4), Corrosivity (9040C), Ignitability (1030)
						Enter Number of Containers Per Analysis							
1 GW-SB-2		9-15-16	1020	G	GW		2	1	1	1	1	1	1
2													
3													
4													
5													
6													
7													
8													

Receipt Information (completed by Sample Receiving)
Performed by: JHuff
Cooler Temp: 1
Therm. ID: 352
No. of Coolers:
Notes:

Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
Y N	Y N	Y N	Y N	

Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
Y N	Y N	Y N	Y N	Y N

SAMPLED BY (Please Print): Adam Norvelle

Project Comments: See QAPP

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Adam Norvelle/CBI	9-15-16	1730	2 FedEx	9/15	0919
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ]

EDDs Required? [ ] If yes, format type:

DOD Criteria Required?

SDWA Forms? ⇨ yes [ ] yes [ ] yes [ ] yes [ ]

State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]

Other

EnLitePWSID No.

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite

**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 01-2013

ALS Environmental

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NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: AZLA 0818.01

State Certification: CT PH-0224, DE ID 11, GA 914, MA PA0102, MD 128, LA 04162, VA 421, WY EPA Region 8, WV 343

QUALITY CONTROL DATA

Workorder 2175704 **Project Name** Rocket Fuel Area 154035

QC Batch WETC / 176165

QC Batch Method SW846 7196A **Analysis Method** SW846 7196A

Associated Lab Samples 2175704001

METHOD BLANK 2409448

Parameter	Blank Result	Qualifiers	Units	Reporting Limit	% Rec	% Rec Limits
Hexavalent Chromium	ND	U	mg/L	0.010		

METHOD BLANK 2409452

Parameter	Blank Result	Qualifiers	Units	Reporting Limit	% Rec	% Rec Limits
Hexavalent Chromium	ND	U	mg/L	0.010		

MATRIX SPIKE 2409450 Original 2172264001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limits
Hexavalent Chromium	ND		mg/L	0.5	0	0*	85-115

This is an addendum to the Certificate of Analysis.

MATRIX SPIKE 2409590 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limits
Hexavalent Chromium	ND		mg/L	0.5	0.5379	108	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2409450 & 2409451 Original 2172264001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MSD Result	MS % Recovery	MSD % Rec	% Rec Limits	RPD	Max RPD
Hexavalent Chromium	ND		mg/L	0.5	0	0	0*	0*	85-115	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2409590 & 2409591 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MSD Result	MS % Recovery	MSD % Rec	% Rec Limits	RPD	Max RPD
Hexavalent Chromium	ND		mg/L	0.5	0.5379	0.5531	108	111	85-115	2.79	20

QC Batch WETC / 176189

QC Batch Method SW846 9040C **Analysis Method** SW846 9040C

Associated Lab Samples 2175704001

QC Batch EXTR / 44900

QC Batch Method SW846 3510C **Analysis Method** SW846 8081B

Associated Lab Samples 2175704001

METHOD BLANK 2410550

Parameter	Blank Result	Qualifiers	Units	Reporting Limit	% Rec	% Rec Limits
4,4'-DDD	ND	U	ug/L	0.020		
4,4'-DDE	ND	U	ug/L	0.020		
4,4'-DDT	ND	U	ug/L	0.020		
Aldrin	ND	U	ug/L	0.020		

This is an addendum to the Certificate of Analysis.

alpha-BHC	ND	U	ug/L	0.020		
alpha-Chlordane	ND	U	ug/L	0.020		
beta-BHC	ND	U	ug/L	0.020		
delta-BHC	ND	U	ug/L	0.020		
Dieldrin	ND	U	ug/L	0.020		
Endosulfan I	ND	U	ug/L	0.020		
Endosulfan II	ND	U	ug/L	0.020		
Endosulfan Sulfate	ND	U	ug/L	0.020		
Endrin	ND	U	ug/L	0.020		
Endrin Aldehyde	ND	U	ug/L	0.020		
Endrin Ketone	ND	U	ug/L	0.020		
gamma-BHC	ND	U	ug/L	0.020		
gamma-Chlordane	ND	U	ug/L	0.020		
Heptachlor	ND	U	ug/L	0.020		
Heptachlor Epoxide	ND	U	ug/L	0.020		
Methoxychlor	ND	U	ug/L	0.020		
Toxaphene	ND	U	ug/L	1.0		
Surrogate Recoveries						
Decachlorobiphenyls			%		77.3	30-140
Tetrachloro-m-xylene			%		70.9	30-123

LABORATORY CONTROL SAMPLE 2410551

Parameter	LCS Result	Qualifiers	Units	Spike Conc.	LCS % Rec	% Rec Limits
4,4'-DDD	0.47		ug/L	0.5	94.6	58-142
4,4'-DDE	0.46		ug/L	0.5	92.7	61-132
4,4'-DDT	0.49		ug/L	0.5	97.7	58-140
Aldrin	0.39		ug/L	0.5	77.8	45-121
alpha-BHC	0.43		ug/L	0.5	86.1	60-137
alpha-Chlordane	0.42		ug/L	0.5	84.8	62-131
beta-BHC	0.47		ug/L	0.5	94.9	59-139
delta-BHC	0.47		ug/L	0.5	94.2	59-141
Dieldrin	0.44		ug/L	0.5	88.2	61-138
Endosulfan I	0.4		ug/L	0.5	79.1	53-128
Endosulfan II	0.41		ug/L	0.5	82.6	57-142
Endosulfan Sulfate	0.44		ug/L	0.5	87.5	36-148
Endrin	0.46		ug/L	0.5	92.7	58-143
Endrin Aldehyde	0.39		ug/L	0.5	77.7	23-139
Endrin Ketone	0.42		ug/L	0.5	83.5	51-139
gamma-BHC	0.45		ug/L	0.5	91	58-138
gamma-Chlordane	0.44		ug/L	0.5	88.1	60-129
Heptachlor	0.47		ug/L	0.5	94.6	51-124

This is an addendum to the Certificate of Analysis.

Heptachlor Epoxide	0.44		ug/L	0.5	87.5	62-131
Methoxychlor	0.43		ug/L	0.5	86.9	56-140
Surrogate Recoveries						
Decachlorobiphenyls			%		67.2	30-140
Tetrachloro-m-xylene			%		61.1	30-123

MATRIX SPIKE 2410552 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limits
4,4'-DDD	ND		ug/L	0.51	0.53363	106	58-142
4,4'-DDE	ND		ug/L	0.51	0.51579	102	61-132
4,4'-DDT	ND		ug/L	0.51	0.56057	111	58-140
Aldrin	ND		ug/L	0.51	0.39935	79.1	45-121
alpha-BHC	ND		ug/L	0.51	0.43645	86.4	60-137
alpha-Chlordane	ND		ug/L	0.51	0.43928	87	62-131
beta-BHC	ND		ug/L	0.51	0.44187	87.5	59-139
delta-BHC	ND		ug/L	0.51	0.47543	94.1	59-141
Dieldrin	ND		ug/L	0.51	0.45599	90.3	61-138
Endosulfan I	ND		ug/L	0.51	0.39022	77.3	53-128
Endosulfan II	ND		ug/L	0.51	0.4371	86.5	57-142
Endosulfan Sulfate	ND		ug/L	0.51	0.47173	93.4	36-148
Endrin	ND		ug/L	0.51	0.48457	95.9	58-143
Endrin Aldehyde	ND		ug/L	0.51	0.38968	77.2	23-139
Endrin Ketone	ND		ug/L	0.51	0.45788	90.7	51-139
gamma-BHC	ND		ug/L	0.51	0.46658	92.4	58-138
gamma-Chlordane	ND		ug/L	0.51	0.45089	89.3	60-129
Heptachlor	ND		ug/L	0.51	0.47743	94.5	51-124
Heptachlor Epoxide	ND		ug/L	0.51	0.44963	89	62-131
Methoxychlor	ND		ug/L	0.51	0.48143	95.3	56-140
Surrogate Recoveries							
Decachlorobiphenyls			%			73	30-140
Tetrachloro-m-xylene			%			63.2	30-123

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2410552 & 2410553 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MSD Result	MS % Recovery	MSD % Rec	% Rec Limits	RPD	Max RPD
4,4'-DDD	ND		ug/L	0.52	0.53363	0.55089	106	107	58-142	3.18	19

This is an addendum to the Certificate of Analysis.

4,4'-DDE	ND	ug/L	0.52	0.51579	0.5345	102	104	61-132	3.56	19
4,4'-DDT	ND	ug/L	0.52	0.56057	0.54054	111	105	58-140	3.64	21
Aldrin	ND	ug/L	0.52	0.39935	0.44724	79.1	86.8	45-121	11.3	31
alpha-BHC	ND	ug/L	0.52	0.43645	0.46356	86.4	89.9	60-137	6.02	31
alpha-Chlordane	ND	ug/L	0.52	0.43928	0.46913	87	91	62-131	6.57	23
beta-BHC	ND	ug/L	0.52	0.44187	0.5203	87.5	101	59-139	16.3	30
delta-BHC	ND	ug/L	0.52	0.47543	0.50205	94.1	97.4	59-141	5.45	31
Dieldrin	ND	ug/L	0.52	0.45599	0.48901	90.3	94.9	61-138	6.99	23
Endosulfan I	ND	ug/L	0.52	0.39022	0.41861	77.3	81.2	53-128	7.02	29
Endosulfan II	ND	ug/L	0.52	0.4371	0.45469	86.5	88.2	57-142	3.94	23
Endosulfan Sulfate	ND	ug/L	0.52	0.47173	0.47177	93.4	91.5	36-148	0.008	25
Endrin	ND	ug/L	0.52	0.48457	0.50637	95.9	98.2	58-143	4.4	28
Endrin Aldehyde	ND	ug/L	0.52	0.38968	0.4065	77.2	78.9	23-139	4.23	21
Endrin Ketone	ND	ug/L	0.52	0.45788	0.44417	90.7	86.2	51-139	3.04	20
gamma-BHC	ND	ug/L	0.52	0.46658	0.49219	92.4	95.5	58-138	5.34	30
gamma-Chlordane	ND	ug/L	0.52	0.45089	0.4913	89.3	95.3	60-129	8.58	23
Heptachlor	ND	ug/L	0.52	0.47743	0.51999	94.5	101	51-124	8.53	28
Heptachlor Epoxide	ND	ug/L	0.52	0.44963	0.47493	89	92.1	62-131	5.47	27
Methoxychlor	ND	ug/L	0.52	0.48143	0.47994	95.3	93.1	56-140	0.31	21
Surrogate Recoveries										
Decachlorobiphenyls		%				73	63.4	30-140		
Tetrachloro-m-xylene		%				63.2	67	30-123		

QC Batch SVGC / 43086

QC Batch Method SW846 8151A **Analysis Method** SW846 8151A

Associated Lab Samples 2175704001

QC Batch VOMS / 40876

QC Batch Method SW846 8260C **Analysis Method** SW846 8260C

Associated Lab Samples 2175704001 2175704002 2175704003 2175704004

METHOD BLANK 2410691

Parameter	Blank Result	Qualifiers	Units	Reporting Limit	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	ND	U	ug/L	1.0		
1,1,1-Trichloroethane	ND	U	ug/L	1.0		
1,1,2,2-Tetrachloroethane	ND	U	ug/L	1.0		
1,1,2-Trichloroethane	ND	U	ug/L	1.0		
1,1-Dichloroethane	ND	U	ug/L	1.0		

This is an addendum to the Certificate of Analysis.

1,1-Dichloroethene	ND	U	ug/L	1.0
1,1-Dichloropropene	ND	U	ug/L	1.0
1,2,3-Trichlorobenzene	0.99	J	ug/L	2.0
1,2,3-Trichloropropane	ND	U	ug/L	2.0
1,2,4-Trichlorobenzene	0.91	J	ug/L	2.0
1,2,4-Trimethylbenzene	ND	U	ug/L	1.0
1,2-Dibromo-3-chloropropane	ND	U	ug/L	1.0
1,2-Dibromoethane	ND	U	ug/L	0.50
1,2-Dichlorobenzene	ND	U	ug/L	1.0
1,2-Dichloroethane	ND	U	ug/L	0.50
1,2-Dichloropropane	ND	U	ug/L	1.0
1,3,5-Trimethylbenzene	ND	U	ug/L	1.0
1,3-Dichlorobenzene	ND	U	ug/L	1.0
1,3-Dichloropropane	ND	U	ug/L	1.0
1,4-Dichlorobenzene	ND	U	ug/L	1.0
1,4-Dioxane	77.7	J	ug/L	320
2,2-Dichloropropane	ND	U	ug/L	1.0
2-Butanone	ND	U	ug/L	10.0
2-Chloroethylvinyl ether	ND	U	ug/L	2.0
2-Hexanone	ND	U	ug/L	5.0
4-Methyl-2-Pentanone(MIBK)	ND	U	ug/L	5.0
Acetone	ND	U	ug/L	10.0
Acetonitrile	3.7	J	ug/L	20.0
Acrolein	ND	U	ug/L	25.0
Acrylonitrile	ND	U	ug/L	5.0
Benzene	ND	U	ug/L	0.50
Benzyl Chloride	ND	U	ug/L	5.0
Bromochloromethane	ND	U	ug/L	1.0
Bromodichloromethane	ND	U	ug/L	1.0
Bromoform	ND	U	ug/L	1.0
Bromomethane	ND	U	ug/L	1.0
Carbon Disulfide	ND	U	ug/L	1.0
Carbon Tetrachloride	ND	U	ug/L	1.0
Chlorobenzene	ND	U	ug/L	1.0
Chlorodibromomethane	ND	U	ug/L	1.0
Chloroethane	ND	U	ug/L	1.0
Chloroform	0.32	J	ug/L	1.0
Chloromethane	ND	U	ug/L	1.0
Chloroprene	ND	U	ug/L	1.0
cis-1,2-Dichloroethene	ND	U	ug/L	1.0
cis-1,3-Dichloropropene	ND	U	ug/L	0.50
Cyclohexane	ND	U	ug/L	1.0
Dibromomethane	ND	U	ug/L	1.0
Dichlorodifluoromethane	ND	U	ug/L	1.0

This is an addendum to the Certificate of Analysis.

Diisopropyl ether	ND	U	ug/L	1.0		
Ethyl Acetate	ND	U	ug/L	2.0		
Ethyl Methacrylate	ND	U	ug/L	1.0		
Ethyl tert-butyl ether	ND	U	ug/L	1.0		
Ethylbenzene	ND	U	ug/L	1.0		
Freon 113	ND	U	ug/L	1.0		
Isobutyl alcohol	ND	U	ug/L	75.0		
Isopropylbenzene	ND	U	ug/L	1.0		
Methacrylonitrile	ND	U	ug/L	2.0		
Methyl acetate	ND	U	ug/L	2.0		
Methyl cyclohexane	ND	U	ug/L	1.0		
Methyl methacrylate	ND	U	ug/L	3.0		
Methyl t-Butyl Ether	ND	U	ug/L	1.0		
Methylene Chloride	ND	U	ug/L	1.0		
mp-Xylene	ND	U	ug/L	2.0		
Naphthalene	0.68	J	ug/L	2.0		
n-Butylbenzene	0.63	J	ug/L	2.0		
n-Propylbenzene	ND	U	ug/L	1.0		
o-Xylene	ND	U	ug/L	1.0		
p-Isopropyltoluene	0.38	J	ug/L	1.0		
Propionitrile	ND	U	ug/L	10.0		
sec-Butylbenzene	0.37	J	ug/L	1.0		
Styrene	ND	U	ug/L	1.0		
tert-Amyl methyl ether	ND	U	ug/L	1.0		
tert-Butyl Alcohol	2.5	J	ug/L	10.0		
tert-Butylbenzene	ND	U	ug/L	2.0		
Tetrachloroethene	ND	U	ug/L	1.0		
Toluene	ND	U	ug/L	1.0		
Total Xylenes	ND	U	ug/L	3.0		
trans-1,2-Dichloroethene	ND	U	ug/L	1.0		
trans-1,3-Dichloropropene	ND	U	ug/L	0.50		
trans-1,4-Dichloro-2-butene	ND	U	ug/L	3.0		
Trichloroethene	ND	U	ug/L	1.0		
Trichlorofluoromethane	ND	U	ug/L	1.0		
Vinyl Acetate	ND	U	ug/L	5.0		
Vinyl Chloride	ND	U	ug/L	1.0		
Surrogate Recoveries						
1,2-Dichloroethane-d4			%		99.3	62-133
4-Bromofluorobenzene			%		106	79-114
Dibromofluoromethane			%		98.9	78-116
Toluene-d8			%		98.1	76-127

This is an addendum to the Certificate of Analysis.

LABORATORY CONTROL SAMPLE 2410692

Parameter	LCS Result	Qualifiers	Units	Spike Conc.	LCS % Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	18.4		ug/L	20	92	78-121
1,1,1-Trichloroethane	22		ug/L	20	110	66-130
1,1,2,2-Tetrachloroethane	17.6		ug/L	20	88	74-135
1,1,2-Trichloroethane	20.2		ug/L	20	101	82-126
1,1-Dichloroethane	21.6		ug/L	20	108	78-124
1,1-Dichloroethene	19.9		ug/L	20	99.4	63-128
1,1-Dichloropropene	22.2		ug/L	20	111	76-126
1,2,3-Trichlorobenzene	16.3		ug/L	20	81.5	61-126
1,2,3-Trichloropropane	17.9		ug/L	20	89.3	75-132
1,2,4-Trichlorobenzene	17.9		ug/L	20	89.3	67-123
1,2,4-Trimethylbenzene	19.2		ug/L	20	95.9	76-125
1,2-Dibromo-3-chloropropane	13.4		ug/L	20	67.1	59-133
1,2-Dibromoethane	21.3		ug/L	20	107	80-124
1,2-Dichlorobenzene	18.7		ug/L	20	93.4	82-118
1,2-Dichloroethane	20.2		ug/L	20	101	70-133
1,2-Dichloropropane	22		ug/L	20	110	81-127
1,3,5-Trimethylbenzene	19.5		ug/L	20	97.3	76-125
1,3-Dichlorobenzene	18.8		ug/L	20	93.9	81-118
1,3-Dichloropropane	19.9		ug/L	20	99.3	82-126
1,4-Dichlorobenzene	18.8		ug/L	20	94.2	81-116
1,4-Dioxane	833		ug/L	500	167	1-280
2,2-Dichloropropane	21.4		ug/L	20	107	64-129
2-Butanone	110		ug/L	100	110	50-152
2-Chloroethylvinyl ether	24.9		ug/L	20	125	1-150
2-Hexanone	77.4		ug/L	100	77.4	65-154
4-Methyl-2-Pentanone(MIBK)	81.1		ug/L	100	81.1	71-146
Acetone	107		ug/L	100	107	40-151
Acetonitrile	99.7		ug/L	100	99.7	19-130
Acrolein	164		ug/L	150	110	18-183
Acrylonitrile	103		ug/L	100	103	71-151
Benzene	21.5		ug/L	20	108	80-124
Benzyl Chloride	18.5		ug/L	20	92.4	59-130
Bromochloromethane	24.1		ug/L	20	120*	73-117
Bromodichloromethane	19.1		ug/L	20	95.3	79-126
Bromoform	15.1		ug/L	20	75.4	70-123
Bromomethane	14.4		ug/L	20	71.9	45-148
Carbon Disulfide	18.9		ug/L	20	94.6	57-131
Carbon Tetrachloride	21.2		ug/L	20	106	62-132
Chlorobenzene	20.2		ug/L	20	101	85-117
Chlorodibromomethane	17.8		ug/L	20	89	77-122

This is an addendum to the Certificate of Analysis.

Chloroethane	14.2	ug/L	20	71	51-142
Chloroform	21.9	ug/L	20	110	78-122
Chloromethane	19.3	ug/L	20	96.5	38-156
Chloroprene	21.6	ug/L	20	108	62-125
cis-1,2-Dichloroethene	20.7	ug/L	20	103	78-125
cis-1,3-Dichloropropene	17.5	ug/L	20	87.7	81-121
Cyclohexane	24	ug/L	20	120	66-130
Dibromomethane	20.8	ug/L	20	104	81-125
Dichlorodifluoromethane	16.4	ug/L	20	81.8	17-166
Diisopropyl ether	20.6	ug/L	20	103	74-131
Ethyl Acetate	18.5	ug/L	20	92.6	63-138
Ethyl Methacrylate	18.3	ug/L	20	91.5	74-128
Ethyl tert-butyl ether	21.1	ug/L	20	105	75-123
Ethylbenzene	20.6	ug/L	20	103	80-124
Freon 113	23.8	ug/L	20	119	50-130
Isobutyl alcohol	228	ug/L	200	114	37-171
Isopropylbenzene	19	ug/L	20	94.9	73-129
Methacrylonitrile	21.7	ug/L	20	109	68-155
Methyl acetate	22.8	ug/L	20	114	70-130
Methyl cyclohexane	21.8	ug/L	20	109	70-130
Methyl methacrylate	17.4	ug/L	20	86.8	63-135
Methyl t-Butyl Ether	20.8	ug/L	20	104	69-115
Methylene Chloride	24.8	ug/L	20	124*	76-121
mp-Xylene	42.1	ug/L	40	105	79-125
Naphthalene	13.2	ug/L	20	65.9	56-134
n-Butylbenzene	19.5	ug/L	20	97.3	71-130
n-Propylbenzene	19.8	ug/L	20	99.1	74-122
o-Xylene	21.3	ug/L	20	107	79-124
p-Isopropyltoluene	19.6	ug/L	20	98.1	72-123
Propionitrile	106	ug/L	100	106	59-158
sec-Butylbenzene	19.4	ug/L	20	97.1	72-127
Styrene	19.4	ug/L	20	97.2	79-123
tert-Amyl methyl ether	20.8	ug/L	20	104	75-121
tert-Butyl Alcohol	122	ug/L	100	122	17-168
tert-Butylbenzene	19.1	ug/L	20	95.6	72-124
Tetrachloroethene	21.1	ug/L	20	105	72-124
Toluene	20.8	ug/L	20	104	80-125
Total Xylenes	63.4	ug/L	60	106	79-125
trans-1,2-Dichloroethene	21.7	ug/L	20	109	71-122
trans-1,3-Dichloropropene	17.9	ug/L	20	89.6	78-126
trans-1,4-Dichloro-2-butene	15.5	ug/L	20	77.6	60-141
Trichloroethene	21.5	ug/L	20	108	77-124
Trichlorofluoromethane	16.9	ug/L	20	84.4	38-123
Vinyl Acetate	19.6	ug/L	20	98.1	58-136

This is an addendum to the Certificate of Analysis.

Vinyl Chloride	16.5		ug/L	20	82.6	27-138
Surrogate Recoveries						
1,2-Dichloroethane-d4			%		98.2	62-133
4-Bromofluorobenzene			%		106	79-114
Dibromofluoromethane			%		103	78-116
Toluene-d8			%		95.7	76-127

MATRIX SPIKE 2411485 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	ND		ug/L	20	20.0085	100	78-121
1,1,1-Trichloroethane	ND		ug/L	20	24.8143	124	66-130
1,1,2,2-Tetrachloroethane	ND		ug/L	20	19.6781	98.4	74-135
1,1,2-Trichloroethane	ND		ug/L	20	21.7377	109	82-126
1,1-Dichloroethane	ND		ug/L	20	23.691	118	78-124
1,1-Dichloroethene	ND		ug/L	20	22.4409	112	63-128
1,1-Dichloropropene	ND		ug/L	20	24.8374	124	76-126
1,2,3-Trichlorobenzene	ND		ug/L	20	17.0408	85.2	61-126
1,2,3-Trichloropropane	ND		ug/L	20	20.1307	101	75-132
1,2,4-Trichlorobenzene	ND		ug/L	20	18.5192	92.6	67-123
1,2,4-Trimethylbenzene	ND		ug/L	20	20.4379	102	76-125
1,2-Dibromo-3-chloropropane	ND		ug/L	20	16.322	81.6	59-133
1,2-Dibromoethane	ND		ug/L	20	22.8708	114	80-124
1,2-Dichlorobenzene	ND		ug/L	20	19.8496	99.2	82-118
1,2-Dichloroethane	ND		ug/L	20	21.7437	109	70-133
1,2-Dichloropropane	ND		ug/L	20	23.4142	117	81-127
1,3,5-Trimethylbenzene	ND		ug/L	20	21.0111	105	76-125
1,3-Dichlorobenzene	ND		ug/L	20	20.2965	101	81-118
1,3-Dichloropropane	ND		ug/L	20	21.0266	105	82-126
1,4-Dichlorobenzene	ND		ug/L	20	19.9905	100	81-116
1,4-Dioxane	ND		ug/L	500	1388.99	278	1-280
2,2-Dichloropropane	ND		ug/L	20	21.0405	105	64-129
2-Butanone	ND		ug/L	100	129.542	130	50-152
2-Chloroethylvinyl ether	ND	J	ug/L	20	0.937541	4.69	1-150
2-Hexanone	ND		ug/L	100	86.5629	86.6	65-154
4-Methyl-2-Pentanone(MIBK)	ND		ug/L	100	92.0396	92	71-146
Acetone	ND		ug/L	100	119.725	120	40-151
Acetonitrile	ND		ug/L	100	135.939	136*	19-130
Acrolein	ND		ug/L	150	179.862	120	18-183
Acrylonitrile	ND		ug/L	100	119.316	119	71-151
Benzene	ND		ug/L	20	23.7303	119	80-124

This is an addendum to the Certificate of Analysis.

Benzyl Chloride	ND	ug/L	20	18.0167	90.1	59-130
Bromochloromethane	ND	ug/L	20	25.8456	129*	73-117
Bromodichloromethane	ND	ug/L	20	20.8935	104	79-126
Bromoform	ND	ug/L	20	16.3969	82	70-123
Bromomethane	ND	ug/L	20	12.498	62.5	45-148
Carbon Disulfide	ND	ug/L	20	20.4124	102	57-131
Carbon Tetrachloride	1.2	ug/L	20	25.7747	123	62-132
Chlorobenzene	ND	ug/L	20	21.6973	108	85-117
Chlorodibromomethane	ND	ug/L	20	19.228	96.1	77-122
Chloroethane	ND	ug/L	20	15.935	79.7	51-142
Chloroform	1.7	ug/L	20	25.5479	119	78-122
Chloromethane	ND	ug/L	20	22.9501	115	38-156
Chloroprene	ND	ug/L	20	24.2744	121	62-125
cis-1,2-Dichloroethene	ND	ug/L	20	22.2534	111	78-125
cis-1,3-Dichloropropene	ND	ug/L	20	17.5042	87.5	81-121
Cyclohexane	ND	ug/L	20	27.4193	137*	66-130
Dibromomethane	ND	ug/L	20	23.2197	116	81-125
Dichlorodifluoromethane	ND	ug/L	20	20.1714	101	17-166
Diisopropyl ether	ND	ug/L	20	21.9063	110	74-131
Ethyl Acetate	ND	ug/L	20	20.7816	104	63-138
Ethyl Methacrylate	ND	ug/L	20	19.6453	98.2	74-128
Ethyl tert-butyl ether	ND	ug/L	20	22.1399	111	75-123
Ethylbenzene	ND	ug/L	20	22.1816	111	80-124
Freon 113	ND	ug/L	20	27.0851	135*	50-130
Isobutyl alcohol	ND	ug/L	200	294.567	147	37-171
Isopropylbenzene	ND	ug/L	20	20.733	104	73-129
Methacrylonitrile	ND	ug/L	20	24.9185	125	68-155
Methyl acetate	ND	ug/L	20	23.3297	117	70-130
Methyl cyclohexane	ND	ug/L	20	23.8301	119	70-130
Methyl methacrylate	ND	ug/L	20	19.0069	95	63-135
Methyl t-Butyl Ether	ND	ug/L	20	21.8468	109	69-115
Methylene Chloride	ND	ug/L	20	24.4501	122*	76-121
mp-Xylene	ND	ug/L	40	44.8303	112	79-125
Naphthalene	ND	ug/L	20	14.2784	71.4	56-134
n-Butylbenzene	ND	ug/L	20	21.9742	110	71-130
n-Propylbenzene	ND	ug/L	20	21.3723	107	74-122
o-Xylene	ND	ug/L	20	22.3953	112	79-124
p-Isopropyltoluene	ND	ug/L	20	21.6668	108	72-123
Propionitrile	ND	ug/L	100	129.954	130	59-158
sec-Butylbenzene	ND	ug/L	20	21.4759	107	72-127
Styrene	ND	ug/L	20	20.3015	102	79-123
tert-Amyl methyl ether	ND	ug/L	20	22.1318	111	75-121
tert-Butyl Alcohol	ND	ug/L	100	159.251	159	17-168
tert-Butylbenzene	ND	ug/L	20	21.0599	105	72-124

This is an addendum to the Certificate of Analysis.

Tetrachloroethene	ND	ug/L	20	22.7179	114	72-124
Toluene	ND	ug/L	20	22.1893	111	80-125
Total Xylenes	ND	ug/L	60	67.2256	112	79-125
trans-1,2-Dichloroethene	ND	ug/L	20	23.6112	118	71-122
trans-1,3-Dichloropropene	ND	ug/L	20	18.473	92.4	78-126
trans-1,4-Dichloro-2-butene	ND	ug/L	20	14.724	73.6	60-141
Trichloroethene	ND	ug/L	20	24.4812	122	77-124
Trichlorofluoromethane	ND	ug/L	20	19.7607	98.8	38-123
Vinyl Acetate	ND	ug/L	20	18.563	92.8	58-136
Vinyl Chloride	ND	ug/L	20	19.1843	95.9	27-138
Surrogate Recoveries						
1,2-Dichloroethane-d4		%			102	62-133
4-Bromofluorobenzene		%			104	79-114
Dibromofluoromethane		%			105	78-116
Toluene-d8		%			94.4	76-127

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2411485 & 2411486 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MSD Result	MS % Recovery	MSD % Rec	% Rec Limits	RPD	Max RPD
1,1,1,2-Tetrachloroethane	ND		ug/L	20	20.0085	20.5707	100	103	78-121	2.77	16
1,1,1-Trichloroethane	ND		ug/L	20	24.8143	25.9273	124	130	66-130	4.39	20
1,1,2,2-Tetrachloroethane	ND		ug/L	20	19.6781	19.767	98.4	98.8	74-135	0.45	16
1,1,2-Trichloroethane	ND		ug/L	20	21.7377	22.0662	109	110	82-126	1.5	15
1,1-Dichloroethane	ND		ug/L	20	23.691	24.4891	118	122	78-124	3.31	15
1,1-Dichloroethene	ND		ug/L	20	22.4409	23.3232	112	117	63-128	3.86	21
1,1-Dichloropropene	ND		ug/L	20	24.8374	25.8716	124	129*	76-126	4.08	16
1,2,3-Trichlorobenzene	ND		ug/L	20	17.0408	18.1683	85.2	90.8	61-126	6.4	36
1,2,3-Trichloropropane	ND		ug/L	20	20.1307	19.8641	101	99.3	75-132	1.33	19
1,2,4-Trichlorobenzene	ND		ug/L	20	18.5192	20.0563	92.6	100	67-123	7.97	22
1,2,4-Trimethylbenzene	ND		ug/L	20	20.4379	21.2633	102	106	76-125	3.96	24
1,2-Dibromo-3-chloropropane	ND		ug/L	20	16.322	16.3101	81.6	81.6	59-133	0.07	26
1,2-Dibromoethane	ND		ug/L	20	22.8708	23.6126	114	118	80-124	3.19	19
1,2-Dichlorobenzene	ND		ug/L	20	19.8496	20.524	99.2	103	82-118	3.34	15
1,2-Dichloroethane	ND		ug/L	20	21.7437	21.8708	109	109	70-133	0.58	19
1,2-Dichloropropane	ND		ug/L	20	23.4142	24.2238	117	121	81-127	3.4	15
1,3,5-Trimethylbenzene	ND		ug/L	20	21.0111	21.8347	105	109	76-125	3.84	18
1,3-Dichlorobenzene	ND		ug/L	20	20.2965	20.8178	101	104	81-118	2.54	16
1,3-Dichloropropane	ND		ug/L	20	21.0266	21.7253	105	109	82-126	3.27	15
1,4-Dichlorobenzene	ND		ug/L	20	19.9905	20.7098	100	104	81-116	3.53	15
1,4-Dioxane	ND		ug/L	500	1388.99	1311.44	278	262	1-280	5.74	40
2,2-Dichloropropane	ND		ug/L	20	21.0405	22.2184	105	111	64-129	5.45	18

This is an addendum to the Certificate of Analysis.

2-Butanone	ND		ug/L	100	129.542	124.39	130	124	50-152	4.06	16
2-Chloroethylvinyl ether	ND	J	ug/L	20	0.937541	0.453341	4.69	2.27	1-150	69.6*	40
2-Hexanone	ND		ug/L	100	86.5629	86.1468	86.6	86.1	65-154	0.48	17
4-Methyl-2-Pentanone(MIBK)	ND		ug/L	100	92.0396	92.2341	92	92.2	71-146	0.21	16
Acetone	ND		ug/L	100	119.725	121.359	120	121	40-151	1.36	40
Acetonitrile	ND		ug/L	100	135.939	135.667	136*	136*	19-130	0.2	28
Acrolein	ND		ug/L	150	179.862	178.895	120	119	18-183	0.54	40
Acrylonitrile	ND		ug/L	100	119.316	119.031	119	119	71-151	0.24	16
Benzene	ND		ug/L	20	23.7303	24.2041	119	121	80-124	1.98	26
Benzyl Chloride	ND		ug/L	20	18.0167	17.3136	90.1	86.6	59-130	3.98	19
Bromochloromethane	ND		ug/L	20	25.8456	26.0026	129*	130*	73-117	0.61	19
Bromodichloromethane	ND		ug/L	20	20.8935	21.4152	104	107	79-126	2.47	16
Bromoform	ND		ug/L	20	16.3969	15.9012	82	79.5	70-123	3.07	16
Bromomethane	ND		ug/L	20	12.498	14.19	62.5	71	45-148	12.7	26
Carbon Disulfide	ND		ug/L	20	20.4124	21.7326	102	109	57-131	6.27	28
Carbon Tetrachloride	1.2		ug/L	20	25.7747	27.1356	123	129	62-132	5.14	17
Chlorobenzene	ND		ug/L	20	21.6973	22.5212	108	113	85-117	3.73	15
Chlorodibromomethane	ND		ug/L	20	19.228	19.92	96.1	99.6	77-122	3.54	15
Chloroethane	ND		ug/L	20	15.935	16.6528	79.7	83.3	51-142	4.41	24
Chloroform	1.7		ug/L	20	25.5479	25.3362	119	118	78-122	0.83	16
Chloromethane	ND		ug/L	20	22.9501	23.0259	115	115	38-156	0.33	27
Chloroprene	ND		ug/L	20	24.2744	25.0007	121	125	62-125	2.95	18
cis-1,2-Dichloroethene	ND		ug/L	20	22.2534	22.7513	111	114	78-125	2.21	21
cis-1,3-Dichloropropene	ND		ug/L	20	17.5042	18.5474	87.5	92.7	81-121	5.79	16
Cyclohexane	ND		ug/L	20	27.4193	28.4518	137*	142*	66-130	3.7	20
Dibromomethane	ND		ug/L	20	23.2197	23.8273	116	119	81-125	2.58	16
Dichlorodifluoromethane	ND		ug/L	20	20.1714	20.2181	101	101	17-166	0.23	24
Diisopropyl ether	ND		ug/L	20	21.9063	22.8981	110	114	74-131	4.43	15
Ethyl Acetate	ND		ug/L	20	20.7816	19.5343	104	97.7	63-138	6.19	18
Ethyl Methacrylate	ND		ug/L	20	19.6453	20.4042	98.2	102	74-128	3.79	16
Ethyl tert-butyl ether	ND		ug/L	20	22.1399	23.0941	111	115	75-123	4.22	16
Ethylbenzene	ND		ug/L	20	22.1816	22.9183	111	115	80-124	3.27	19
Freon 113	ND		ug/L	20	27.0851	28.0021	135*	140*	50-130	3.33	26
Isobutyl alcohol	ND		ug/L	200	294.567	288.895	147	144	37-171	1.94	40
Isopropylbenzene	ND		ug/L	20	20.733	21.4438	104	107	73-129	3.37	18
Methacrylonitrile	ND		ug/L	20	24.9185	24.4673	125	122	68-155	1.83	16
Methyl acetate	ND		ug/L	20	23.3297	23.448	117	117	70-130	0.51	18
Methyl cyclohexane	ND		ug/L	20	23.8301	25.2552	119	126	70-130	5.81	18
Methyl methacrylate	ND		ug/L	20	19.0069	19.7132	95	98.6	63-135	3.65	24
Methyl t-Butyl Ether	ND		ug/L	20	21.8468	22.7209	109	114	69-115	3.92	20
Methylene Chloride	ND		ug/L	20	24.4501	24.9021	122*	125*	76-121	1.83	17
mp-Xylene	ND		ug/L	40	44.8303	47.0846	112	118	79-125	4.91	21
Naphthalene	ND		ug/L	20	14.2784	15.2676	71.4	76.3	56-134	6.7	40
n-Butylbenzene	ND		ug/L	20	21.9742	23.2569	110	116	71-130	5.67	20

This is an addendum to the Certificate of Analysis.

n-Propylbenzene	ND	ug/L	20	21.3723	22.4864	107	112	74-122	5.08	20
o-Xylene	ND	ug/L	20	22.3953	23.6682	112	118	79-124	5.53	19
p-Isopropyltoluene	ND	ug/L	20	21.6668	22.9333	108	115	72-123	5.68	17
Propionitrile	ND	ug/L	100	129.954	127.058	130	127	59-158	2.25	22
sec-Butylbenzene	ND	ug/L	20	21.4759	22.6785	107	113	72-127	5.45	17
Styrene	ND	ug/L	20	20.3015	21.4313	102	107	79-123	5.41	16
tert-Amyl methyl ether	ND	ug/L	20	22.1318	22.8487	111	114	75-121	3.19	40
tert-Butyl Alcohol	ND	ug/L	100	159.251	167.957	159	168	17-168	5.32	40
tert-Butylbenzene	ND	ug/L	20	21.0599	22.0396	105	110	72-124	4.55	17
Tetrachloroethene	ND	ug/L	20	22.7179	24.3263	114	122	72-124	6.84	38
Toluene	ND	ug/L	20	22.1893	23.1198	111	116	80-125	4.11	20
Total Xylenes	ND	ug/L	60	67.2256	70.7528	112	118	79-125	5.11	35
trans-1,2-Dichloroethene	ND	ug/L	20	23.6112	24.9667	118	125*	71-122	5.58	22
trans-1,3-Dichloropropene	ND	ug/L	20	18.473	19.4229	92.4	97.1	78-126	5.01	18
trans-1,4-Dichloro-2-butene	ND	ug/L	20	14.724	13.9998	73.6	70	60-141	5.04	18
Trichloroethene	ND	ug/L	20	24.4812	24.2946	122	121	77-124	0.77	18
Trichlorofluoromethane	ND	ug/L	20	19.7607	20.5049	98.8	103	38-123	3.7	23
Vinyl Acetate	ND	ug/L	20	18.563	19.3719	92.8	96.9	58-136	4.26	17
Vinyl Chloride	ND	ug/L	20	19.1843	20.2414	95.9	101	27-138	5.36	40
Surrogate Recoveries										
1,2-Dichloroethane-d4		%				102	103	62-133		
4-Bromofluorobenzene		%				104	105	79-114		
Dibromofluoromethane		%				105	105	78-116		
Toluene-d8		%				94.4	97	76-127		

QC Batch MDIG / 59771

QC Batch Method SW846 3015 **Analysis Method** SW846 6010C

Associated Lab Samples 2175704001

METHOD BLANK 2411279

Parameter	Blank Result	Qualifiers	Units	Reporting Limit	% Rec	% Rec Limits
Aluminum, Total	ND	U	mg/L	0.11		
Antimony, Total	ND	U	mg/L	0.022		
Arsenic, Total	ND	U	mg/L	0.0090		
Barium, Total	ND	U	mg/L	0.011		
Beryllium, Total	ND	U	mg/L	0.0044		
Cadmium, Total	ND	U	mg/L	0.0022		
Calcium, Total	ND	U	mg/L	0.11		
Chromium, Total	ND	U	mg/L	0.0056		
Cobalt, Total	ND	U	mg/L	0.0056		

This is an addendum to the Certificate of Analysis.

Copper, Total	ND	U	mg/L	0.011
Iron, Total	ND	U	mg/L	0.067
Lead, Total	ND	U	mg/L	0.0067
Magnesium, Total	ND	U	mg/L	0.11
Manganese, Total	ND	U	mg/L	0.0056
Nickel, Total	ND	U	mg/L	0.022
Potassium, Total	ND	U	mg/L	0.56
Selenium, Total	ND	U	mg/L	0.022
Silver, Total	ND	U	mg/L	0.0044
Sodium, Total	ND	U	mg/L	0.56
Thallium, Total	ND	U	mg/L	0.022
Vanadium, Total	ND	U	mg/L	0.0056
Zinc, Total	ND	U	mg/L	0.022

LABORATORY CONTROL SAMPLE 2411280

Parameter	LCS Result	Qualifiers	Units	Spike Conc.	LCS % Rec	% Rec Limits
Aluminum, Total	1.1		mg/L	1.1	99.5	80-120
Antimony, Total	0.22		mg/L	0.22	99.6	80-120
Arsenic, Total	0.11		mg/L	0.11	94.8	80-120
Barium, Total	1.1		mg/L	1.1	100	80-120
Beryllium, Total	0.22		mg/L	0.22	98.1	80-120
Cadmium, Total	0.11		mg/L	0.11	100	80-120
Calcium, Total	1.1		mg/L	1.1	98.2	80-120
Chromium, Total	0.11		mg/L	0.11	99.6	80-120
Cobalt, Total	1.1		mg/L	1.1	98.2	80-120
Copper, Total	1.1		mg/L	1.1	97.8	80-120
Iron, Total	1.1		mg/L	1.1	100	80-120
Lead, Total	0.11		mg/L	0.11	95.7	80-120
Magnesium, Total	1.1		mg/L	1.1	100	80-120
Manganese, Total	0.11		mg/L	0.11	103	80-120
Nickel, Total	1.1		mg/L	1.1	99.1	80-120
Potassium, Total	22.8		mg/L	22.2	102	80-120
Selenium, Total	1.1		mg/L	1.1	95.4	80-120
Silver, Total	0.11		mg/L	0.11	99	80-120
Sodium, Total	22.2		mg/L	22.2	99.9	80-120
Thallium, Total	0.11		mg/L	0.11	97.5	80-120
Vanadium, Total	0.054		mg/L	0.056	97.8	80-120
Zinc, Total	0.55		mg/L	0.56	99.5	80-120

This is an addendum to the Certificate of Analysis.

MATRIX SPIKE 2411281 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limits
Aluminum, Total	0.39		mg/L	1.1	1.5466512	104	75-125
Antimony, Total	0.00022		mg/L	0.22	0.23399766	105	75-125
Arsenic, Total	ND		mg/L	0.11	0.11122111	100	75-125
Barium, Total	0.0064		mg/L	1.1	1.1599884	104	75-125
Beryllium, Total	0.00011		mg/L	0.22	0.22199778	99.8	75-125
Cadmium, Total	0.00011		mg/L	0.11	0.11577662	104	75-125
Calcium, Total	12.9		mg/L	1.1	13.533198	NC	75-125
Chromium, Total	0.00078		mg/L	0.11	0.11255443	101	75-125
Cobalt, Total	0.001		mg/L	1.1	1.1310998	102	75-125
Copper, Total	0.0016		mg/L	1.1	1.133322	102	75-125
Iron, Total	0.55		mg/L	1.1	1.7410937	108	75-125
Lead, Total	0.0017		mg/L	0.11	0.11277665	100	75-125
Magnesium, Total	1.1		mg/L	1.1	2.2099779	101	75-125
Manganese, Total	0.17		mg/L	0.11	0.28455271	99.7	75-125
Nickel, Total	0.0022		mg/L	1.1	1.1433219	103	75-125
Potassium, Total	0.83		mg/L	22.2	24.255313	105	75-125
Selenium, Total	0.0042		mg/L	1.1	1.1255443	101	75-125
Silver, Total	ND		mg/L	0.11	0.11277665	101	75-125
Sodium, Total	23.8		mg/L	22.2	45.955096	99.7	75-125
Thallium, Total	ND		mg/L	0.11	0.11277665	101	75-125
Vanadium, Total	0.00056		mg/L	0.056	0.05688832	101	75-125
Zinc, Total	0.0042		mg/L	0.56	0.57810533	103	75-125

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2411281 & 2411282 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MSD Result	MS % Recovery	MSD % Rec	% Rec Limits	RPD	Max RPD
Aluminum, Total	0.39		mg/L	1.1	1.5466512	1.5577622	104	105	75-125	0.72	20
Antimony, Total	0.00022		mg/L	0.22	0.23399766	0.22699773	105	102	75-125	3.04	20
Arsenic, Total	ND		mg/L	0.11	0.11122111	0.11088778	100	99.8	75-125	0.3	20
Barium, Total	0.0064		mg/L	1.1	1.1599884	1.1399886	104	102	75-125	1.74	20
Beryllium, Total	0.00011		mg/L	0.22	0.22199778	0.22377554	99.8	101	75-125	0.8	20
Cadmium, Total	0.00011		mg/L	0.11	0.11577662	0.11422108	104	103	75-125	1.35	20
Calcium, Total	12.9		mg/L	1.1	13.533198	13.622086	NC	NC	75-125	0.65	20
Chromium, Total	0.00078		mg/L	0.11	0.11255443	0.11088778	101	99.1	75-125	1.49	20
Cobalt, Total	0.001		mg/L	1.1	1.1310998	1.11065556	102	99.9	75-125	1.82	20

This is an addendum to the Certificate of Analysis.

Copper, Total	0.0016	mg/L	1.1	1.133322	1.10465562	102	99.3	75-125	2.56	20
Iron, Total	0.55	mg/L	1.1	1.7410937	1.7722045	108	110	75-125	1.77	20
Lead, Total	0.0017	mg/L	0.11	0.11277665	0.10833225	100	96	75-125	4.02	20
Magnesium, Total	1.1	mg/L	1.1	2.2099779	2.2344221	101	103	75-125	1.1	20
Manganese, Total	0.17	mg/L	0.11	0.28455271	0.28377494	99.7	99	75-125	0.27	20
Nickel, Total	0.0022	mg/L	1.1	1.1433219	1.1266554	103	101	75-125	1.47	20
Potassium, Total	0.83	mg/L	22.2	24.255313	23.921983	105	104	75-125	1.38	20
Selenium, Total	0.0042	mg/L	1.1	1.1255443	1.08710024	101	97.5	75-125	3.47	20
Silver, Total	ND	mg/L	0.11	0.11277665	0.11066556	101	99.6	75-125	1.89	20
Sodium, Total	23.8	mg/L	22.2	45.955096	45.732876	99.7	98.7	75-125	0.48	20
Thallium, Total	ND	mg/L	0.11	0.11277665	0.11655439	101	105	75-125	3.29	20
Vanadium, Total	0.00056	mg/L	0.056	0.05688832	0.05611055	101	100	75-125	1.38	20
Zinc, Total	0.0042	mg/L	0.56	0.57810533	0.57188317	103	102	75-125	1.08	20

QC Batch MDIG / 59782

QC Batch Method SW846 7470A **Analysis Method** SW846 7470A

Associated Lab Samples 2175704001

METHOD BLANK 2411371

Parameter	Blank Result	Qualifiers	Units	Reporting Limit	% Rec	% Rec Limits
Mercury, Total	ND	U	mg/L	0.00050		

LABORATORY CONTROL SAMPLE 2411372

Parameter	LCS Result	Qualifiers	Units	Spike Conc.	LCS % Rec	% Rec Limits
Mercury, Total	0.0021		mg/L	0.002	105	85-115

MATRIX SPIKE 2411373 Original 2175587003

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limits
Mercury, Total	ND		mg/L	0.005	0.0052	104	70-130

This is an addendum to the Certificate of Analysis.

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2411373 & 2411374 Original 2175587003

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MSD Result	MS % Recovery	MSD % Rec	% Rec Limits	RPD	Max RPD
Mercury, Total	ND		mg/L	0.005	0.0052	0.00534	104	107	70-130	2.66	20

QC Batch EXTR / 44921

QC Batch Method SW846 3510C **Analysis Method** SW846 8270D

Associated Lab Samples 2175704001

METHOD BLANK 2411414

Parameter	Blank Result	Qualifiers	Units	Reporting Limit	% Rec	% Rec Limits
1,2,4,5-Tetrachlorobenzene	ND	U	ug/L	3.0		
1,2,4-Trichlorobenzene	ND	U	ug/L	3.0		
1,2-Dichlorobenzene	ND	U	ug/L	3.0		
1,3-Dichlorobenzene	ND	U	ug/L	3.0		
1,3-Dinitrobenzene	ND	U	ug/L	3.0		
1,4-Dichlorobenzene	ND	U	ug/L	3.0		
2,3,4,6-Tetrachlorophenol	ND	U	ug/L	3.0		
2,4,5-Trichlorophenol	ND	U	ug/L	3.0		
2,4,6-Trichlorophenol	ND	U	ug/L	3.0		
2,4-Dichlorophenol	ND	U	ug/L	3.0		
2,4-Dimethylphenol	ND	U	ug/L	3.0		
2,4-Dinitrophenol	ND	U	ug/L	6.0		
2,4-Dinitrotoluene	ND	U	ug/L	3.0		
2,6-Dichlorophenol	ND	U	ug/L	3.0		
2,6-Dinitrotoluene	ND	U	ug/L	3.0		
2-Chloronaphthalene	ND	U	ug/L	3.0		
2-Chlorophenol	ND	U	ug/L	3.0		
2-Methyl-4,6-dinitrophenol	ND	U	ug/L	6.0		
2-Methylnaphthalene	ND	U	ug/L	1.5		
2-Naphthylamine	ND	U	ug/L	3.0		
2-Nitroaniline	ND	U	ug/L	3.0		
2-Nitrophenol	ND	U	ug/L	3.0		
3,3-Dichlorobenzidine	ND	U	ug/L	3.0		
3-Nitroaniline	ND	U	ug/L	3.0		
4-Bromophenyl-phenylether	ND	U	ug/L	3.0		
4-Chloro-3-methylphenol	ND	U	ug/L	3.0		

This is an addendum to the Certificate of Analysis.

4-Chloroaniline	ND	U	ug/L	3.0
4-Chlorophenyl-phenylether	ND	U	ug/L	3.0
4-Nitroaniline	ND	U	ug/L	3.0
4-Nitrophenol	ND	U	ug/L	3.0
Acenaphthene	ND	U	ug/L	1.5
Acenaphthylene	ND	U	ug/L	1.5
Acetophenone	ND	U	ug/L	3.0
Aniline	ND	U	ug/L	3.0
Anthracene	ND	U	ug/L	1.5
Atrazine	ND	U	ug/L	3.0
Benzaldehyde	ND	U	ug/L	3.0
Benzidine	ND	U	ug/L	8.0
Benzo(a)anthracene	ND	U	ug/L	1.5
Benzo(a)pyrene	ND	U	ug/L	1.5
Benzo(b)fluoranthene	ND	U	ug/L	1.5
Benzo(g,h,i)perylene	ND	U	ug/L	1.5
Benzo(k)fluoranthene	ND	U	ug/L	1.5
Benzoic acid	ND	U	ug/L	6.0
Benzyl Alcohol	ND	U	ug/L	3.0
Biphenyl	ND	U	ug/L	3.0
bis(2-Chloroethoxy)methane	ND	U	ug/L	3.0
bis(2-Chloroethyl)ether	ND	U	ug/L	3.0
bis(2-Chloroisopropyl)ether	ND	U	ug/L	3.0
bis(2-Ethylhexyl)phthalate	ND	U	ug/L	3.0
Butylbenzylphthalate	ND	U	ug/L	3.0
Caprolactam	ND	U	ug/L	3.0
Carbazole	ND	U	ug/L	3.0
Chrysene	ND	U	ug/L	1.5
Dibenzo(a,h)anthracene	ND	U	ug/L	1.5
Dibenzofuran	ND	U	ug/L	3.0
Diethylphthalate	ND	U	ug/L	3.0
Dimethoate	ND	U	ug/L	3.0
Dimethylphthalate	ND	U	ug/L	3.0
Di-n-Butylphthalate	ND	U	ug/L	3.0
Di-n-Octylphthalate	ND	U	ug/L	3.0
Diphenylamine	ND	U	ug/L	3.0
Fluoranthene	ND	U	ug/L	1.5
Fluorene	ND	U	ug/L	1.5
Hexachlorobenzene	ND	U	ug/L	3.0
Hexachlorobutadiene	ND	U	ug/L	3.0
Hexachlorocyclopentadiene	ND	U	ug/L	3.0
Hexachloroethane	ND	U	ug/L	3.0
Indeno(1,2,3-cd)pyrene	ND	U	ug/L	1.5
Isophorone	ND	U	ug/L	3.0

This is an addendum to the Certificate of Analysis.

mp-Cresol	ND	U	ug/L	3.0		
Naphthalene	ND	U	ug/L	1.5		
Nitrobenzene	ND	U	ug/L	3.0		
N-Nitrosodiethylamine	ND	U	ug/L	3.0		
N-Nitrosodimethylamine	ND	U	ug/L	3.0		
N-Nitrosodi-n-butylamine	ND	U	ug/L	3.0		
N-Nitroso-di-n-propylamine	ND	U	ug/L	3.0		
N-Nitrosodiphenylamine	ND	U	ug/L	3.0		
N-Nitrosopyrrolidine	ND	U	ug/L	3.0		
o-Cresol	ND	U	ug/L	3.0		
Pentachlorobenzene	ND	U	ug/L	3.0		
Pentachlorophenol	ND	U	ug/L	6.0		
Phenanthrene	ND	U	ug/L	1.5		
Phenol	ND	U	ug/L	8.0		
Pyrene	ND	U	ug/L	1.5		
Pyridine	ND	U	ug/L	3.0		
Surrogate Recoveries						
2,4,6-Tribromophenol			%		106	47-128
2-Fluorobiphenyl			%		93.2	52-118
2-Fluorophenol			%		64.6	20-87
Nitrobenzene-d5			%		88	27-139
Phenol-d5			%		38.2	10-81
Terphenyl-d14			%		101	46-133

LABORATORY CONTROL SAMPLE 2411415

Parameter	LCS Result	Qualifiers	Units	Spike Conc.	LCS % Rec	% Rec Limits
1,2,4,5-Tetrachlorobenzene	34.9		ug/L	50	69.7	18-124
1,2,4-Trichlorobenzene	31		ug/L	50	62	6-120
1,2-Dichlorobenzene	28.2		ug/L	50	56.5	5-119
1,3-Dichlorobenzene	26.9		ug/L	50	53.8	5-118
1,3-Dinitrobenzene	44.9		ug/L	50	89.8	52-120
1,4-Dichlorobenzene	26.7		ug/L	50	53.4	5-116
2,3,4,6-Tetrachlorophenol	87.2		ug/L	100	87.2	36-133
2,4,5-Trichlorophenol	95		ug/L	100	95	44-148
2,4,6-Trichlorophenol	96.1		ug/L	100	96.1	41-148
2,4-Dichlorophenol	90.6		ug/L	100	90.6	44-142
2,4-Dimethylphenol	89.9		ug/L	100	89.9	46-141
2,4-Dinitrophenol	78.5		ug/L	100	78.5	21-140
2,4-Dinitrotoluene	46.7		ug/L	50	93.5	49-138
2,6-Dichlorophenol	45.2		ug/L	50	90.4	39-136
2,6-Dinitrotoluene	46		ug/L	50	92.1	49-136

This is an addendum to the Certificate of Analysis.

2-Chloronaphthalene	37.1	ug/L	50	74.3	27-125
2-Chlorophenol	78.3	ug/L	100	78.3	42-137
2-Methyl-4,6-dinitrophenol	85.9	ug/L	100	85.9	46-133
2-Methylnaphthalene	35.6	ug/L	50	71.1	22-124
2-Naphthylamine	39.8	ug/L	50	79.7	33-123
2-Nitroaniline	45.2	ug/L	50	90.5	55-138
2-Nitrophenol	89.7	ug/L	100	89.7	46-140
3,3-Dichlorobenzidine	84.7	ug/L	100	84.7	38-115
3-Nitroaniline	45	ug/L	50	89.9	60-123
4-Bromophenyl-phenylether	45.8	ug/L	50	91.6	46-128
4-Chloro-3-methylphenol	88.5	ug/L	100	88.5	46-144
4-Chloroaniline	42.1	ug/L	50	84.2	44-113
4-Chlorophenyl-phenylether	43.4	ug/L	50	86.9	38-128
4-Nitroaniline	43.5	ug/L	50	87.1	53-124
4-Nitrophenol	50.3	ug/L	100	50.3	5-108
Acenaphthene	41	ug/L	50	81.9	36-130
Acenaphthylene	43	ug/L	50	85.9	39-130
Acetophenone	37.8	ug/L	50	75.6	49-117
Aniline	40.1	ug/L	50	80.2	47-110
Anthracene	44.9	ug/L	50	89.8	48-133
Atrazine	48.3	ug/L	50	96.6	44-149
Benzaldehyde	46.7	ug/L	50	93.3	38-145
Benzidine	66.1	ug/L	100	66.1	5-142
Benzo(a)anthracene	44.5	ug/L	50	89	51-127
Benzo(a)pyrene	44.6	ug/L	50	89.2	53-127
Benzo(b)fluoranthene	45.2	ug/L	50	90.5	53-131
Benzo(g,h,i)perylene	47.8	ug/L	50	95.5	54-131
Benzo(k)fluoranthene	46.4	ug/L	50	92.8	52-130
Benzoic acid	8.5	ug/L	100	8.49	5-86
Benzyl Alcohol	34.4	ug/L	50	68.8	44-119
Biphenyl	37.8	ug/L	50	75.7	30-132
bis(2-Chloroethoxy)methane	46.9	ug/L	50	93.8	43-132
bis(2-Chloroethyl)ether	41.8	ug/L	50	83.7	41-128
bis(2-Chloroisopropyl)ether	40.7	ug/L	50	81.4	32-128
bis(2-Ethylhexyl)phthalate	40.4	ug/L	50	80.8	41-145
Butylbenzylphthalate	41.7	ug/L	50	83.4	50-137
Caprolactam	24	ug/L	50	48	5-118
Carbazole	45.5	ug/L	50	90.9	52-139
Chrysene	44.6	ug/L	50	89.1	50-131
Dibenzo(a,h)anthracene	47.3	ug/L	50	94.6	56-130
Dibenzofuran	42.1	ug/L	50	84.1	39-133
Diethylphthalate	44	ug/L	50	88.1	45-132
Dimethoate	44	ug/L	50	88	49-149
Dimethylphthalate	44.6	ug/L	50	89.2	44-131

This is an addendum to the Certificate of Analysis.

Di-n-Butylphthalate	44.5		ug/L	50	89	47-135
Di-n-Octylphthalate	32.7		ug/L	50	65.4	35-141
Diphenylamine	45.7		ug/L	50	91.4	49-138
Fluoranthene	45.5		ug/L	50	91	49-132
Fluorene	43.8		ug/L	50	87.6	42-131
Hexachlorobenzene	46.3		ug/L	50	92.6	59-109
Hexachlorobutadiene	30.4		ug/L	50	60.7	5-126
Hexachlorocyclopentadiene	22.2		ug/L	50	44.5	5-97
Hexachloroethane	22.8		ug/L	50	45.7	5-111
Indeno(1,2,3-cd)pyrene	45.9		ug/L	50	91.9	55-126
Isophorone	45.7		ug/L	50	91.5	45-129
mp-Cresol	70.3		ug/L	100	70.3	28-128
Naphthalene	34.7		ug/L	50	69.4	21-123
Nitrobenzene	47.4		ug/L	50	94.8	41-128
N-Nitrosodiethylamine	41.5		ug/L	50	83	48-132
N-Nitrosodimethylamine	27.5		ug/L	50	54.9	19-101
N-Nitrosodi-n-butylamine	44.4		ug/L	50	88.9	38-140
N-Nitroso-di-n-propylamine	44.2		ug/L	50	88.5	46-133
N-Nitrosodiphenylamine	53.5		ug/L	50	107	58-125
N-Nitrosopyrrolidine	40.6		ug/L	50	81.2	44-137
o-Cresol	77.4		ug/L	100	77.4	34-136
Pentachlorobenzene	40.9		ug/L	50	81.8	36-129
Pentachlorophenol	97.1		ug/L	100	97.1	41-149
Phenanthrene	43.7		ug/L	50	87.3	46-131
Phenol	36.6		ug/L	100	36.6	5-111
Pyrene	46.4		ug/L	50	92.7	48-134
Pyridine	29.7		ug/L	50	59.4	5-115
Surrogate Recoveries						
2,4,6-Tribromophenol			%		99.6	47-128
2-Fluorobiphenyl			%		83.7	52-118
2-Fluorophenol			%		61.3	20-87
Nitrobenzene-d5			%		84.9	27-139
Phenol-d5			%		36.8	10-81
Terphenyl-d14			%		89.6	46-133

MATRIX SPIKE 2411416 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		ug/L	51.3	32.3868	63.2	18-124
1,2,4-Trichlorobenzene	ND		ug/L	51.3	27.3644	53.4	6-120
1,2-Dichlorobenzene	ND		ug/L	51.3	24.6567	48.1	5-119

This is an addendum to the Certificate of Analysis.

1,3-Dichlorobenzene	ND	ug/L	51.3	23.3127	45.5	5-118
1,3-Dinitrobenzene	ND	ug/L	51.3	47.8987	93.4	52-120
1,4-Dichlorobenzene	ND	ug/L	51.3	23.1836	45.2	5-116
2,3,4,6-Tetrachlorophenol	ND	ug/L	103	96.4905	94.1	36-133
2,4,5-Trichlorophenol	ND	ug/L	103	104.395	102	44-148
2,4,6-Trichlorophenol	ND	ug/L	103	103.508	101	41-148
2,4-Dichlorophenol	ND	ug/L	103	94.3965	92	44-142
2,4-Dimethylphenol	ND	ug/L	103	90.5386	88.3	46-141
2,4-Dinitrophenol	ND	ug/L	103	86.0929	83.9	21-140
2,4-Dinitrotoluene	ND	ug/L	51.3	50.926	99.3	49-138
2,6-Dichlorophenol	ND	ug/L	51.3	46.6992	91.1	39-136
2,6-Dinitrotoluene	ND	ug/L	51.3	49.2419	96	49-136
2-Chloronaphthalene	ND	ug/L	51.3	36.0657	70.3	27-125
2-Chlorophenol	ND	ug/L	103	79.8059	77.8	42-137
2-Methyl-4,6-dinitrophenol	ND	ug/L	103	91.3511	89.1	46-133
2-Methylnaphthalene	ND	ug/L	51.3	32.0903	62.6	22-124
2-Naphthylamine	ND	ug/L	51.3	38.5933	75.3	33-123
2-Nitroaniline	ND	ug/L	51.3	49.0964	95.7	55-138
2-Nitrophenol	ND	ug/L	103	91.3579	89.1	46-140
3,3-Dichlorobenzidine	ND	ug/L	103	95.5968	93.2	38-115
3-Nitroaniline	ND	ug/L	51.3	48.925	95.4	60-123
4-Bromophenyl-phenylether	ND	ug/L	51.3	48.211	94	46-128
4-Chloro-3-methylphenol	ND	ug/L	103	92.688	90.4	46-144
4-Chloroaniline	ND	ug/L	51.3	43.6475	85.1	44-113
4-Chlorophenyl-phenylether	ND	ug/L	51.3	44.1839	86.2	38-128
4-Nitroaniline	ND	ug/L	51.3	47.0506	91.7	53-124
4-Nitrophenol	ND	ug/L	103	52.8106	51.5	5-108
Acenaphthene	ND	ug/L	51.3	40.769	79.5	36-130
Acenaphthylene	ND	ug/L	51.3	43.2583	84.4	39-130
Acetophenone	ND	ug/L	51.3	38.3926	74.9	49-117
Aniline	ND	ug/L	51.3	38.4959	75.1	47-110
Anthracene	ND	ug/L	51.3	47.5044	92.6	48-133
Atrazine	ND	ug/L	51.3	51.5112	100	44-149
Benzaldehyde	ND	ug/L	51.3	45.4118	88.6	38-145
Benzidine	ND	ug/L	103	53.9912	52.6	5-142
Benzo(a)anthracene	ND	ug/L	51.3	47.6707	93	51-127
Benzo(a)pyrene	ND	ug/L	51.3	47.5709	92.8	53-127
Benzo(b)fluoranthene	ND	ug/L	51.3	48.9894	95.5	53-131
Benzo(g,h,i)perylene	ND	ug/L	51.3	51.771	101	54-131
Benzo(k)fluoranthene	ND	ug/L	51.3	49.5962	96.7	52-130
Benzoic acid	ND	ug/L	103	12.3832	12.1	5-86
Benzyl Alcohol	ND	ug/L	51.3	36.9566	72.1	44-119
Biphenyl	ND	ug/L	51.3	36.263	70.7	30-132
bis(2-Chloroethoxy)methane	ND	ug/L	51.3	48.4044	94.4	43-132

This is an addendum to the Certificate of Analysis.

bis(2-Chloroethyl)ether	ND	ug/L	51.3	42.8907	83.6	41-128
bis(2-Chloroisopropyl)ether	ND	ug/L	51.3	41.1942	80.3	32-128
bis(2-Ethylhexyl)phthalate	ND	ug/L	51.3	44.9828	87.7	41-145
Butylbenzylphthalate	ND	ug/L	51.3	46.0112	89.7	50-137
Caprolactam	ND	ug/L	51.3	25.7386	50.2	5-118
Carbazole	ND	ug/L	51.3	48.4973	94.6	52-139
Chrysene	ND	ug/L	51.3	47.992	93.6	50-131
Dibenzo(a,h)anthracene	ND	ug/L	51.3	51.1588	99.8	56-130
Dibenzofuran	ND	ug/L	51.3	42.3933	82.7	39-133
Diethylphthalate	ND	ug/L	51.3	48.4303	94.4	45-132
Dimethoate	ND	ug/L	51.3	47.7519	93.1	49-149
Dimethylphthalate	ND	ug/L	51.3	48.2891	94.2	44-131
Di-n-Butylphthalate	ND	ug/L	51.3	49.2513	96	47-135
Di-n-Octylphthalate	ND	ug/L	51.3	37.5852	73.3	35-141
Diphenylamine	ND	ug/L	51.3	47.9531	93.5	49-138
Fluoranthene	ND	ug/L	51.3	49.05	95.6	49-132
Fluorene	ND	ug/L	51.3	44.5032	86.8	42-131
Hexachlorobenzene	ND	ug/L	51.3	49.7713	97.1	59-109
Hexachlorobutadiene	ND	ug/L	51.3	27.9251	54.5	5-126
Hexachlorocyclopentadiene	ND	ug/L	51.3	18.9536	37	5-97
Hexachloroethane	ND	ug/L	51.3	20.3111	39.6	5-111
Indeno(1,2,3-cd)pyrene	ND	ug/L	51.3	49.8985	97.3	55-126
Isophorone	ND	ug/L	51.3	47.7286	93.1	45-129
mp-Cresol	ND	ug/L	103	74.3833	72.5	28-128
Naphthalene	ND	ug/L	51.3	31.1215	60.7	21-123
Nitrobenzene	ND	ug/L	51.3	47.1909	92	41-128
N-Nitrosodiethylamine	ND	ug/L	51.3	42.9399	83.7	48-132
N-Nitrosodimethylamine	ND	ug/L	51.3	27.976	54.6	19-101
N-Nitrosodi-n-butylamine	ND	ug/L	51.3	45.9778	89.7	38-140
N-Nitroso-di-n-propylamine	ND	ug/L	51.3	45.5811	88.9	46-133
N-Nitrosodiphenylamine	ND	ug/L	51.3	56.1702	110	58-1625
N-Nitrosopyrrolidine	ND	ug/L	51.3	42.4871	82.8	44-137
o-Cresol	ND	ug/L	103	78.8425	76.9	34-136
Pentachlorobenzene	ND	ug/L	51.3	40.4835	78.9	36-129
Pentachlorophenol	ND	ug/L	103	105.448	103	41-149
Phenanthrene	ND	ug/L	51.3	46.2642	90.2	46-131
Phenol	ND	ug/L	103	40.2774	39.3	5-111
Pyrene	ND	ug/L	51.3	49.6005	96.7	48-134
Pyridine	ND	ug/L	51.3	29.3835	57.3	5-115

This is an addendum to the Certificate of Analysis.

Surrogate Recoveries			
2,4,6-Tribromophenol	%	106	47-128
2-Fluorobiphenyl	%	85	52-118
2-Fluorophenol	%	60.8	20-87
Nitrobenzene-d5	%	84.8	27-139
Phenol-d5	%	37.8	10-81
Terphenyl-d14	%	92.8	46-133

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2411416 & 2411417 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MSD Result	MS % Recovery	MSD % Rec	% Rec Limits	RPD	Max RPD
1,2,4,5-Tetrachlorobenzene	ND		ug/L	52.1	32.3868	33.1603	63.2	63.7	18-124	2.36	30
1,2,4-Trichlorobenzene	ND		ug/L	52.1	27.3644	28.8519	53.4	55.4	6-120	5.29	30
1,2-Dichlorobenzene	ND		ug/L	52.1	24.6567	26.0098	48.1	49.9	5-119	5.34	30
1,3-Dichlorobenzene	ND		ug/L	52.1	23.3127	24.4202	45.5	46.9	5-118	4.64	30
1,3-Dinitrobenzene	ND		ug/L	52.1	47.8987	50.5647	93.4	97.1	52-120	5.42	30
1,4-Dichlorobenzene	ND		ug/L	52.1	23.1836	24.252	45.2	46.6	5-116	4.5	30
2,3,4,6-Tetrachlorophenol	ND		ug/L	104	96.4905	96.8597	94.1	93	36-133	0.38	30
2,4,5-Trichlorophenol	ND		ug/L	104	104.395	105.384	102	101	44-148	0.94	23
2,4,6-Trichlorophenol	ND		ug/L	104	103.508	104.857	101	101	41-148	1.29	23
2,4-Dichlorophenol	ND		ug/L	104	94.3965	97.0689	92	93.2	44-142	2.79	30
2,4-Dimethylphenol	ND		ug/L	104	90.5386	91.6372	88.3	88	46-141	1.21	30
2,4-Dinitrophenol	ND		ug/L	104	86.0929	78.1804	83.9	75.1	21-140	9.63	30
2,4-Dinitrotoluene	ND		ug/L	52.1	50.926	52.539	99.3	101	49-138	3.12	22
2,6-Dichlorophenol	ND		ug/L	52.1	46.6992	47.8135	91.1	91.8	39-136	2.36	30
2,6-Dinitrotoluene	ND		ug/L	52.1	49.2419	50.6864	96	97.3	49-136	2.89	30
2-Chloronaphthalene	ND		ug/L	52.1	36.0657	37.2245	70.3	71.5	27-125	3.16	30
2-Chlorophenol	ND		ug/L	104	79.8059	82.1564	77.8	78.9	42-137	2.9	30
2-Methyl-4,6-dinitrophenol	ND		ug/L	104	91.3511	91.6976	89.1	88	46-133	0.38	30
2-Methylnaphthalene	ND		ug/L	52.1	32.0903	34.0475	62.6	65.4	22-124	5.92	30
2-Naphthylamine	ND		ug/L	52.1	38.5933	43.0372	75.3	82.6	33-123	10.9	30
2-Nitroaniline	ND		ug/L	52.1	49.0964	50.4534	95.7	96.9	55-138	2.73	30
2-Nitrophenol	ND		ug/L	104	91.3579	96.4331	89.1	92.6	46-140	5.41	30
3,3-Dichlorobenzidine	ND		ug/L	104	95.5968	103.456	93.2	99.3	38-115	7.9	30
3-Nitroaniline	ND		ug/L	52.1	48.925	50.4691	95.4	96.9	60-123	3.11	30
4-Bromophenyl-phenylether	ND		ug/L	52.1	48.211	49.5899	94	95.2	46-128	2.82	30
4-Chloro-3-methylphenol	ND		ug/L	104	92.688	95.5429	90.4	91.7	46-144	3.03	30
4-Chloroaniline	ND		ug/L	52.1	43.6475	45.0491	85.1	86.5	44-113	3.16	30
4-Chlorophenyl-phenylether	ND		ug/L	52.1	44.1839	45.0804	86.2	86.6	38-128	2.01	30
4-Nitroaniline	ND		ug/L	52.1	47.0506	49.786	91.7	95.6	53-124	5.65	30
4-Nitrophenol	ND		ug/L	104	52.8106	52.9626	51.5	50.8	5-108	0.29	30

This is an addendum to the Certificate of Analysis.

Acenaphthene	ND	ug/L	52.1	40.769	41.8983	79.5	80.4	36-130	2.73	30
Acenaphthylene	ND	ug/L	52.1	43.2583	44.3071	84.4	85.1	39-130	2.4	30
Acetophenone	ND	ug/L	52.1	38.3926	39.1385	74.9	75.1	49-117	1.92	30
Aniline	ND	ug/L	52.1	38.4959	40.6027	75.1	78	47-110	5.33	30
Anthracene	ND	ug/L	52.1	47.5044	49.7389	92.6	95.5	48-133	4.6	30
Atrazine	ND	ug/L	52.1	51.5112	54.9746	100	106	44-149	6.5	30
Benzaldehyde	ND	ug/L	52.1	45.4118	47.3135	88.6	90.8	38-145	4.1	30
Benzidine	ND	ug/L	104	53.9912	73.3665	52.6	70.4	5-142	30.4*	30
Benzo(a)anthracene	ND	ug/L	52.1	47.6707	50.4694	93	96.9	51-127	5.7	30
Benzo(a)pyrene	ND	ug/L	52.1	47.5709	50.5772	92.8	97.1	53-127	6.13	30
Benzo(b)fluoranthene	ND	ug/L	52.1	48.9894	51.7752	95.5	99.4	53-131	5.53	30
Benzo(g,h,i)perylene	ND	ug/L	52.1	51.771	56.1002	101	108	54-131	8.03	30
Benzo(k)fluoranthene	ND	ug/L	52.1	49.5962	52.5191	96.7	101	52-130	5.72	30
Benzoic acid	ND	ug/L	104	12.3832	8.49026	12.1	8.15	5-86	37.3*	30
Benzyl Alcohol	ND	ug/L	52.1	36.9566	37.1783	72.1	71.4	44-119	0.6	30
Biphenyl	ND	ug/L	52.1	36.263	37.246	70.7	71.5	30-132	2.67	30
bis(2-Chloroethoxy)methane	ND	ug/L	52.1	48.4044	49.6978	94.4	95.4	43-132	2.64	30
bis(2-Chloroethyl)ether	ND	ug/L	52.1	42.8907	44.4528	83.6	85.3	41-128	3.58	30
bis(2-Chloroisopropyl)ether	ND	ug/L	52.1	41.1942	43.092	80.3	82.7	32-128	4.5	30
bis(2-Ethylhexyl)phthalate	ND	ug/L	52.1	44.9828	46.6631	87.7	89.6	41-145	3.67	30
Butylbenzylphthalate	ND	ug/L	52.1	46.0112	48.3356	89.7	92.8	50-137	4.93	30
Caprolactam	ND	ug/L	52.1	25.7386	26.9267	50.2	51.7	5-118	4.51	30
Carbazole	ND	ug/L	52.1	48.4973	51.8416	94.6	99.5	52-139	6.67	30
Chrysene	ND	ug/L	52.1	47.992	51.0652	93.6	98	50-131	6.2	30
Dibenzo(a,h)anthracene	ND	ug/L	52.1	51.1588	54.6472	99.8	105	56-130	6.59	30
Dibenzofuran	ND	ug/L	52.1	42.3933	43.3514	82.7	83.2	39-133	2.23	30
Diethylphthalate	ND	ug/L	52.1	48.4303	49.1027	94.4	94.3	45-132	1.38	30
Dimethoate	ND	ug/L	52.1	47.7519	50.3369	93.1	96.6	49-149	5.27	30
Dimethylphthalate	ND	ug/L	52.1	48.2891	49.6989	94.2	95.4	44-131	2.88	30
Di-n-Butylphthalate	ND	ug/L	52.1	49.2513	50.9791	96	97.9	47-135	3.45	30
Di-n-Octylphthalate	ND	ug/L	52.1	37.5852	39.0524	73.3	75	35-141	3.83	30
Diphenylamine	ND	ug/L	52.1	47.9531	50.2205	93.5	96.4	49-138	4.62	30
Fluoranthene	ND	ug/L	52.1	49.05	51.7708	95.6	99.4	49-132	5.4	30
Fluorene	ND	ug/L	52.1	44.5032	45.6397	86.8	87.6	42-131	2.52	30
Hexachlorobenzene	ND	ug/L	52.1	49.7713	51.7984	97.1	99.5	59-109	3.99	21
Hexachlorobutadiene	ND	ug/L	52.1	27.9251	28.8705	54.5	55.4	5-126	3.33	30
Hexachlorocyclopentadiene	ND	ug/L	52.1	18.9536	20.4357	37	39.2	5-97	7.53	30
Hexachloroethane	ND	ug/L	52.1	20.3111	20.8232	39.6	40	5-111	2.49	30
Indeno(1,2,3-cd)pyrene	ND	ug/L	52.1	49.8985	53.2905	97.3	102	55-126	6.57	30
Isophorone	ND	ug/L	52.1	47.7286	48.8944	93.1	93.9	45-129	2.41	30
mp-Cresol	ND	ug/L	104	74.3833	75.1536	72.5	72.1	28-128	1.03	20
Naphthalene	ND	ug/L	52.1	31.1215	33.3755	60.7	64.1	21-123	6.99	30
Nitrobenzene	ND	ug/L	52.1	47.1909	49.6422	92	95.3	41-128	5.06	19
N-Nitrosodiethylamine	ND	ug/L	52.1	42.9399	44.1841	83.7	84.8	48-132	2.86	30

This is an addendum to the Certificate of Analysis.

N-Nitrosodimethylamine	ND		ug/L	52.1	27.976	28.7984	54.6	55.3	19-101	2.9	30
N-Nitrosodi-n-butylamine	ND		ug/L	52.1	45.9778	48.5083	89.7	93.1	38-140	5.36	30
N-Nitroso-di-n-propylamine	ND		ug/L	52.1	45.5811	46.952	88.9	90.1	46-133	2.96	30
N-Nitrosodiphenylamine	ND		ug/L	52.1	56.1702	58.8261	110	113	58-1625	4.62	30
N-Nitrosopyrrolidine	ND		ug/L	52.1	42.4871	43.2599	82.8	83.1	44-137	1.8	30
o-Cresol	ND		ug/L	104	78.8425	80.2571	76.9	77	34-136	1.78	23
Pentachlorobenzene	ND		ug/L	52.1	40.4835	41.9867	78.9	80.6	36-129	3.65	30
Pentachlorophenol	ND		ug/L	104	105.448	105.956	103	102	41-149	0.48	28
Phenanthrene	ND		ug/L	52.1	46.2642	48.4804	90.2	93.1	46-131	4.68	30
Phenol	ND		ug/L	104	40.2774	41.3325	39.3	39.7	5-111	2.59	30
Pyrene	ND		ug/L	52.1	49.6005	52.2312	96.7	100	48-134	5.17	30
Pyridine	ND		ug/L	52.1	29.3835	29.6006	57.3	56.8	5-115	0.74	30
Surrogate Recoveries											
2,4,6-Tribromophenol			%				106	107	47-128		25
2-Fluorobiphenyl			%				85	86	52-118		21
2-Fluorophenol			%				60.8	60.4	20-87		27
Nitrobenzene-d5			%				84.8	85.6	27-139		30
Phenol-d5			%				37.8	37.9	10-81		30
Terphenyl-d14			%				92.8	95.9	46-133		30

QC Batch EXTR / 44927

QC Batch Method SW846 3510C **Analysis Method** SW846 8082A

Associated Lab Samples 2175704001

METHOD BLANK 2411664

Parameter	Blank Result	Qualifiers	Units	Reporting Limit	% Rec	% Rec Limits
Aroclor-1016	ND	U	ug/L	0.050		
Aroclor-1221	ND	U	ug/L	0.050		
Aroclor-1232	ND	U	ug/L	0.050		
Aroclor-1242	ND	U	ug/L	0.050		
Aroclor-1248	ND	U	ug/L	0.050		
Aroclor-1254	ND	U	ug/L	0.050		
Aroclor-1260	ND	U	ug/L	0.050		
Aroclor-1262	ND	U	ug/L	0.050		
Aroclor-1268	ND	U	ug/L	0.050		
Surrogate Recoveries						
Decachlorobiphenyls			%		86.3	30-140
Tetrachloro-m-xylene			%		67.8	30-133

This is an addendum to the Certificate of Analysis.

LABORATORY CONTROL SAMPLE 2411665

Parameter	LCS Result	Qualifiers	Units	Spike Conc.	LCS % Rec	% Rec Limits
Aroclor-1016	0.79		ug/L	1	78.8	43-132
Aroclor-1260	0.8		ug/L	1	79.9	49-130
Surrogate Recoveries						
Decachlorobiphenyls			%		75.2	30-140
Tetrachloro-m-xylene			%		61.6	30-133

MATRIX SPIKE 2411666 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limits
Aroclor-1016	ND		ug/L	5	3.94076	78.8	43-132
Aroclor-1260	ND		ug/L	5	3.88261	77.7	49-130
Surrogate Recoveries							
Decachlorobiphenyls			%			68.3	30-140
Tetrachloro-m-xylene			%			68.1	30-133

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2411666 & 2411667 Original 2175704001

*****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	Spike Conc.	MS Result	MSD Result	MS % Recovery	MSD % Rec	% Rec Limits	RPD	Max RPD
Aroclor-1016	ND		ug/L	5	3.94076	4.38676	78.8	87.7	43-132	10.7	18
Aroclor-1260	ND		ug/L	5	3.88261	3.99471	77.7	79.9	49-130	2.85	40
Surrogate Recoveries											
Decachlorobiphenyls			%				68.3	60.7	30-140		
Tetrachloro-m-xylene			%				68.1	68.6	30-133		

QC Batch WCPR / 37677

QC Batch Method SW-846 7.3CN **Analysis Method** SW-846 7.3CN

Associated Lab Samples 2175704001

METHOD BLANK 2411671

Parameter	Blank Result	Qualifiers	Units	Reporting Limit	% Rec	% Rec Limits

This is an addendum to the Certificate of Analysis.

Cyanide, Reactive	ND	U	ppm	10.0					

LABORATORY CONTROL SAMPLE 2411672(DIL5)

Parameter	LCS Result	Qualifiers	Units	Spike Conc.	LCS % Rec	% Rec Limits
Cyanide, Reactive	1.9	J	ppm	10	19	0-92

SAMPLE DUPLICATE 2411673 Original 2176268001

*****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	DUP Result	RPD	Max RPD	% Rec	% Rec Limits
Cyanide, Reactive	ND	U	ppm	ND	NC	20		

QC Batch WCPR / 37678

QC Batch Method SW846 7.3 **Analysis Method** SW846 7.3

Associated Lab Samples 2175704001

METHOD BLANK 2411674

Parameter	Blank Result	Qualifiers	Units	Reporting Limit	% Rec	% Rec Limits
Sulfide, Reactive	3.6	J	ppm	6.3		

LABORATORY CONTROL SAMPLE 2411675

Parameter	LCS Result	Qualifiers	Units	Spike Conc.	LCS % Rec	% Rec Limits
Sulfide, Reactive	379		ppm	570	66.5	49-148

SAMPLE DUPLICATE 2411676 Original 2176268001

*****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	DUP Result	RPD	Max RPD	% Rec	% Rec Limits
Sulfide, Reactive	5.58603491	J	ppm	3.19680319	54.4*	20		

Workorder	**2175704**	**Project Name**	**Rocket Fuel Area 154035**
QC Batch	WETC / 176450		
QC Batch Method	SW-846 1010A	**Analysis Method**	SW-846 1010A
Associated Lab Samples	2175704001		

SAMPLE DUPLICATE 2412455 Original 2175704001

*****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.*

Parameter	Original Result	Qualifiers	Units	DUP Result	RPD	Max RPD	% Rec	% Rec Limits
Flashpoint/Ignitability			Deg. F					

This is an addendum to the Certificate of Analysis.

Standard Acronyms/Flags	
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
NC	Not Calculated
*	Result outside of QC limits
DIL	Dilution Factor

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

This is an addendum to the Certificate of Analysis.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW-846 1010A	WETC / 176450	SW-846 1010A	WETC / 176450

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW846 3015	MDIG / 59771	SW846 6010C	META / 54303

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW846 7.3	WCPR / 37678	SW846 7.3	WETC / 176372
2176268001	ZZZZZZZZZZ	SW846 7.3	WCPR / 37678	SW846 7.3	WETC / 176372

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW-846 7.3CN	WCPR / 37677	SW-846 7.3CN	WETC / 176404
2176268001	ZZZZZZZZZZ	SW-846 7.3CN	WCPR / 37677	SW-846 7.3CN	WETC / 176404

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW846 7196A	WETC / 176165	SW846 7196A	WETC / 176165

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW846 7470A	MDIG / 59782	SW846 7470A	META / 54307

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW846 3510C	EXTR / 44900	SW846 8081B	SVGC / 43100

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW846 3510C	EXTR / 44927	SW846 8082A	SVGC / 43124

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW846 8151A	SVGC / 43086	SW846 8151A	SVGC / 43086

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW846 8260C	VOMS / 40876	SW846 8260C	VOMS / 40876
2175704002	GW-SB-3	SW846 8260C	VOMS / 40876	SW846 8260C	VOMS / 40876
2175704003	DUP2-Water	SW846 8260C	VOMS / 40876	SW846 8260C	VOMS / 40876
2175704004	TB13	SW846 8260C	VOMS / 40876	SW846 8260C	VOMS / 40876

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW846 3510C	EXTR / 44921	SW846 8270D	SVMS / 26594

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2175704001	GW-SB-2	SW846 9040C	WETC / 176189	SW846 9040C	WETC / 176189

This is an addendum to the Certificate of Analysis.

Attachment H

DUSR

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

December 21, 2016

Brian Neumann
CB&I Environmental and Infrastructure
13 British American Blvd
Latham, NY 12110

RE: Data Usability Summary Report (DUSR)
Validation of the Malta Rocket Fuel Area (MRFA) Site Analytical Laboratory Data
ALS SDG Nos. CBR-021, CBR-022, CBR-023, CBR-024, and CBR-025

Dear Mr. Neumann:

Review has been completed for the data packages generated by ALS Environmental that pertain to samples collected 09/14/16 and 09/15/16 at the MFRA site. Nine soil samples, three aqueous samples, and field duplicates of each matrix were processed for TCL volatiles, TCL semivolatiles, TCL PCBs, TCL pesticides, nine herbicides, TAL metals, hexavalent chromium, reactive cyanide, and reactive sulfide. The soil samples were also processed for ignitibility and the aqueous samples were also processed for corrosivity and flashpoint. Analytical methodologies are those of the USEPA SW846.

The data package submitted by the laboratory contains full deliverables for validation. This usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, in accordance with the project QAPP of February 2, 2016, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Equipment/Trip/Method Blanks
* Matrix Spikes/Laboratory Duplicates
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Calibration Standards
* ICP Serial Dilution Evaluations
* ICP Interference Check Samples
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, most sample results are usable either as reported or with minor qualification or edit. However, the following significant item is noted:

- the result for dinoseb in one sample is not usable due to an apparent matrix effect

Accuracy, precision, data completeness, sensitivity, representativeness, and the analytical method comparability are acceptable. The laboratory data packages underwent revisions to report proper analyte lists and to correct deliverable errors.

Copies of the client sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also attached are laboratory excel files, with recommended qualifiers and edits applied in red.

Chain-of-Custody/Sample Receipt

The custody form associated with samples reported in SDG CBR-022 does not indicate all of the required analytical fractions. The samples were processed properly; this variance or the resolution thereof was not noted in the laboratory data package.

The year was omitted from the laboratory receipt relinquish entry on the custody associated with samples reported in SDG CBR-025.

Bind Field Duplicates

The blind field duplicate correlations of SB-2(0-4ft) and GW-SB-3 show the following outliers, the results for which are qualified as estimated in the indicated parent sample and its duplicate: Carbon tetrachloride (39%RPD) and potassium (36%RPD) in SB-2(0-4ft)

TCL Volatile Analyses by EPA8260C

The detections of 1,2-dichoroethane in the soil samples are edited to reflect non-detection due to very poor mass spectral quality.

The detections of toluene in the soil samples are considered external contamination due to presence in the associated equipment and trip blanks, and those results have been edited to reflect non-detection.

The matrix spikes of SB-1 (8-12ft) and GW-SB-2 show recoveries and correlations that are within validation guidelines.

Holding times were met. Surrogate and internal standard recoveries are within required limits. Calibration standards show responses within validation guidelines.

TCL Semivolatiles by EPA8270D

The equipment blank shows a high concentration of dimethylphthalate, an analyte not detected in the project samples. The source of that contaminant has not been ascertained.

The detection of di-n-butylphthalate in GW-SB-1 is considered external contamination due to presence in the associated method blank, and that sample result has been edited to reflect non-detection.

The matrix spikes of SB-1 (8-12ft) and GW-SB-2 show recoveries and correlations that are within validation guidelines, with the exception of an elevated recovery that does not affect the results of the parent sample.

The results for analytes initially reported with the "E" flag have been replaced by dilution analysis concentrations, thus reflecting responses within the established linear range of the instrument.

Holding times were met. Surrogate and internal standard recoveries are within validation guidelines.

Calibration standards show acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated samples:

- hexachlorocyclopentadiene (51%RSD) and 2,4-dinitrophenol (47%RSD) in the samples reported in SDG CBR-022

TCL Pesticides, Aroclor PCBs, and Herbicides by EPA Methods 8081B, 8082A, and 8151

The matrix spikes of pesticides, herbicides, and Aroclors 1660 in SB-1 (8-12ft) and GW-SB-2 show recoveries and correlations that are within validation guidelines.

Holding times were met. Blanks show no contamination affecting sample reported results. Surrogate and LCS standard recoveries are acceptable. Calibration standards show compliant responses. Instrument performance wass compliant.

TAL Metals Analyses by EPA 6010C, 7470, and 7471

The matrix spikes of SB-1 (8-12ft) and GW-SB-1 show recoveries and correlations that are within validation guidelines, with the exceptions of elevated correlations for aluminum and potassium (37%RPD and 53%RPD, respectively) in the soil. The results for those two elements in that parent sample have been qualified as estimated in value.

The detection of barium in GW-SB-2 is considered external contamination due to presence in the associated equipment blank, and that result has been edited to reflect non-detection.

The laboratory did not process ICP serial dilutions, although one should have been processed for the soil matrix. The effect of the matrix has therefore not been thoroughly evaluated.

Instrument performance is compliant.

Wet Chemistry Analyses for Hexavalent Chromium, Ignitability, Corrosivity, Reactive Cyanide, and Reactive Sulfide

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All were found acceptable for the validated samples, unless noted specifically within this text.

The aqueous samples were processed for hexavalent chromium beyond the allowable, and sometimes well beyond the usable, timeframe. However, the reported results for that analyte can be found usable based upon the total chromium results, which include that of the hexavalent form. One of the samples has been edited to reflect an elevated hexavalent chromium reporting limit (19 ug/L, above 10ug/L) corresponding to the detected concentration of total chromium. This limit is still below the GW Standard concentration of 50 ug/L, and is therefore usable.

All corrosivity values have been qualified as estimated due to outlying holding time. The analysis should be performed immediately, but was done after laboratory receipt, sometime as much as two days after collection.

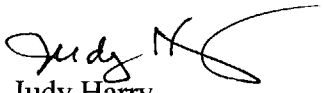
The detections of reactive sulfide in the soil and aqueous samples are considered external contamination or false positives due to consistent reported detections in the associated equipment and method blanks. Those sample detections have been edited to reflect non-detection.

The hexavalent chromium matrix spikes on the soluble and insoluble fractions of SB-1(0-4ft) show low recoveries (67% and 57%), and the result for that analyte in the parent sample has been qualified as estimated, with a likely low bias.

The hexavalent chromium matrix spikes of GW-SB-2 show acceptable recoveries and duplicate correlations. The laboratory duplicate evaluation of reactive sulfide in GW-W-SB1 shows acceptable correlations.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Att: Validation Qualifier Definitions
Client and Laboratory Sample IDs
Qualified Laboratory EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-1
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

NYSDEC SampleID/Code	Laboratory Sample ID/Code	Analytical Requirements					
		VOA GC/MS Method #	BNA GC/MS Method #	VOA GC Method #	Pest PCBs Method #	Metals Method #	Other Method #
SB-1(0-4ft)	2175429001	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7471B	S2540G-11, SW846 1030, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A
SB-1(4-8ft)	2175429002	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7471B	S2540G-11, SW846 1030, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A
SB-1(8-12ft)	2175429003	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7471B	S2540G-11, SW846 1030, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-1
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

NYSDEC SampleID/Code	Laboratory Sample ID/Code	Analytical Requirements					
		VOA GC/MS Method #	BNA GC/MS Method #	VOA GC Method #	Pest PCBs Method #	Metals Method #	Other Method #
SB-2(0-4ft)	2175452001	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7471B	S2540G-11, SW846 1030, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A
SB-2(4-8ft)	2175452002	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7471B	S2540G-11, SW846 1030, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A
SB-2(8-12ft)	2175452003	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7471B	S2540G-11, SW846 1030, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A
SB-3(0-4ft)	2175452004	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7471B	S2540G-11, SW846 1030, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A
SB-3(4-8ft)	2175452005	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7471B	S2540G-11, SW846 1030, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A
SB-3(8-12ft)	2175452006	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7471B	S2540G-11, SW846 1030, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A
DUP2-SOIL	2175452007	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7471B	S2540G-11, SW846 1030, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-1
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

NYSDEC SampleID/Code	Laboratory Sample ID/Code	Analytical Requirements					
		VOA GC/MS Method #	BNA GC/MS Method #	VOA GC Method #	Pest PCBs Method #	Metals Method #	Other Method #
EQ2 - Water	2175699001	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7470A	SW-846 1010A, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A, SW846 9040C
GW-SB-1	2175699002	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7470A	SW-846 1010A, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A, SW846 9040C
TB12	2175699003	SW846 8260C					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-1
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

NYSDEC SampleID/Code	Laboratory Sample ID/Code	Analytical Requirements					
		VOA GC/MS Method #	BNA GC/MS Method #	VOA GC Method #	Pest PCBs Method #	Metals Method #	Other Method #
GW-SB-3	2175701001		SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7470A	SW-846 1010A, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A, SW846 9040C
DUP2-Water	2175701002		SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7470A	SW-846 1010A, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A, SW846 9040C

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-1
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

NYSDEC SampleID/Code	Laboratory Sample ID/Code	Analytical Requirements					
		VOA GC/MS Method #	BNA GC/MS Method #	VOA GC Method #	Pest PCBs Method #	Metals Method #	Other Method #
GW-SB-2	2175704001	SW846 8260C	SW846 8270D		SW846 8081B, SW846 8082A	SW846 6010C, SW846 7470A	SW-846 1010A, SW846 7.3, SW-846 7.3CN, SW846 7196A, SW846 8151A, SW846 9040C
GW-SB-3	2175704002	SW846 8260C					
DUP2-Water	2175704003	SW846 8260C					
TB13	2175704004	SW846 8260C					

Attachment I

Manifest and Disposal Documentation

206879

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYD980535124	1	(877) 818-0087	001120359 VES

GENERATOR

5. Generator's Name and Mailing Address: GENERAL ELECTRIC COMPANY, 319 GREAT OAKS BOULEVARD, ALBANY, NY 12203
Generator's Site Address (if different than mailing address): MALTA RFA, 400 STONEBREAK ROAD EXTENSION, MALTA, NY 12020
Generator's Phone: 518 862-2717

6. Transporter 1 Company Name: VEOLIA ES TECHNICAL SOLUTIONS — U.S. EPA ID Number: NJD080631369

7. Transporter 2 Company Name: FREEHOLD CARTAGE INC — U.S. EPA ID Number: NJD054126164

8. Designated Facility Name and Site Address: VEOLIA ES TECHNICAL SOLUTIONS, 125 FACTORY LANE, MIDDLESEX, NJ 08846 — U.S. EPA ID Number: NJD002454544
Facility's Phone: 732 469-5100

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, TETRACHLOROETHYLENE), 3, II, RQ (D001)	6	DM	1800	P	D001	D018	D035
						D010	D022	B
X	2. NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (BENZENE, CARBON TETRACHLORIDE), 9, III	3	DM	600	P	D018	D022	
						D019	B	
X	3. NA3077, HAZARDOUS WASTE, SOLID, n.o.s., (CHLOROFORM, SELENIUM), 9, III	11	DM	2600	P	D004	D010	D019
						D007	D018	B
	4.							

COPY

14. Special Handling Instructions and Additional Information: ER Services Contracted by VESTS -|- 1) ERG:128 W:25684 A:MARFS 2) ERG:171 W: 25688 A:MARCSWFUEL 3) ERG:171 W:25663 A:MARDEBRIS

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Adam Norvelle as authorized agent of General Electric Company — Signature: [signature] — Month 08 Day 30 Year 16

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DOUGLAS POWELL — Signature: [signature] — Month 08 Day 30 Year 16

Transporter 2 Printed/Typed Name: George Dudley — Signature: [signature] — Month 09 Day 02 Year 16

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061	H061	H061	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: David Scelfo — Signature: [signature] — Month 09 Day 06 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

PACKING SUMMARY

Generator Number: 636268
MALTA RFA
400 STONEBREAK ROAD EXTENSION
MALTA, NY 12020
Attn: JOHN URUSKYJ
EPA ID:NYD980535124

Manifest Number: 001120359VES
Field System ID: KN
Work Order Number: 2662564000
Date Shipped: 08/30/2016

Container#: KN-2662564000-003 Waste Area: Manifest Page/Line: 01 / 1
WP: 025684 Disposal Code: MARFS PHY State: L
Date Accumulated: 08/01/2016 Gen Drum ID:
Shipping Name: UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, TETRACHLOROETHYLENE), 3, II, RQ (D001)
No. of Commons: 06 Outer Container: 551A2-DM Inner Container: 551A1-DM
Primary Waste Codes: D001,D010,D018,D022,D035,B PCB Serial #: OOS Date: / /
Total Cmns Wt: 1600 SIC: 9999 Source: G13 Form: W205 System: H061 Cubic Ft.: 11.40
Individual Common Weights: 200, 300, 200, 400, 400, 300 (POUNDS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	55 GAL		BENZENE [0-194M] CHLOROFORM [0-273M] 2- BUTANONE [0-1350M] SELENIUM (ELEMENT) [0-9.3M] TETRACHLOROETHYLENE [0-500M]	D001, D010, D018, D022, D035, D039, B

Container#: KN-2662564000-004 Waste Area: Manifest Page/Line: 01 / 2
WP: 025688 Disposal Code: MARCSWFUEL PHY State: L
Date Accumulated: 05/27/2016 Gen Drum ID:
Shipping Name: NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (BENZENE, CARBON TETRACHLORIDE), 9, III
No. of Commons: 02 Outer Container: 551A2-DM Inner Container: 551A1-DM
Primary Waste Codes: D018,D019,D022,B PCB Serial #: OOS Date: / /
Total Cmns Wt: 500 SIC: 9999 Source: G13 Form: W205 System: H061 Cubic Ft.: 11.40
Individual Common Weights: 100, 400 (POUNDS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	55 GAL		BENZENE [0-6.72M] CARBON TETRACHLORIDE [0-1.43M] CHLOROFORM [0-6.4M]	D018, D019, D022, B

Container#: KN-2662564000-005 Waste Area: Manifest Page/Line: 01 / 2
WP: 025688 Disposal Code: MARCSWFUEL PHY State: L
Date Accumulated: 06/09/2016 Gen Drum ID:
Shipping Name: NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (BENZENE, CARBON TETRACHLORIDE), 9, III
No. of Commons: 01 Outer Container: 551A1-DM Inner Container:
Primary Waste Codes: D018,D019,D022,B PCB Serial #: OOS Date: / /
Total Cmns Wt: 100 SIC: 9999 Source: G13 Form: W205 System: H061 Cubic Ft.: 7.50
Individual Common Weights: 1 @ 100 (POUNDS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes

1	55 GAL	BENZENE [0-6.72M] CARBON TETRACHLORIDE [0-1.43M] CHLOROFORM [0-6.4M]	D018, D019, D022, B

Container#: KN-2662664000-001 Waste Area: Manifest Page/Line: 01 / 3

WP: 025663 Disposal Code: MARDEBRIS PHY State: S

Date Accumulated: 05/27/2016 Gen Drum ID:

Shipping Name: NA3077, HAZARDOUS WASTE, SOLID, n.o.s., (CHLOROFORM, SELENIUM), 9, III

No. of Commons: 02 Outer Container: 55IA2-DM Inner Container: 55IA2-DM

Primary Waste Codes: D004,D007,D010,D018,D019,B PCB Serial #: OOS Date: / /

Total Cmns Wt: 400 SIC: 9999 Source: G13 Form: W603 System: H141 Cubic Ft.: 11.40

Individual Common Weights: 300, 100 (POUNDS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	55 GAL		ARSENIC [0-129M] BENZENE [0-13.7M] CARBON TETRACHLORIDE [0-14.2M] CHLOROFORM [0-1020M] CHROMIUM [0-15900M] SELENIUM (ELEMENT) [0-4.3M]	D004, D007, D010, D018, D019, D022, B

Container#: KN-2662664000-002 Waste Area: Manifest Page/Line: 01 / 3

WP: 025663 Disposal Code: MARDEBRIS PHY State: S

Date Accumulated: 06/07/2016 Gen Drum ID:

Shipping Name: NA3077, HAZARDOUS WASTE, SOLID, n.o.s., (CHLOROFORM, SELENIUM), 9, III

No. of Commons: 09 Outer Container: 55IA2-DM Inner Container:

Primary Waste Codes: D004,D007,D010,D018,D019,B PCB Serial #: OOS Date: / /

Total Cmns Wt: 2200 SIC: 9999 Source: G13 Form: W603 System: H141 Cubic Ft.: 7.60

Individual Common Weights: 300, 400, 400, 100, 100, 400, 100, 100, 300 (POUNDS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	55 GAL		ARSENIC [0-129M] BENZENE [0-13.7M] CARBON TETRACHLORIDE [0-14.2M] CHLOROFORM [0-1020M] CHROMIUM [0-15900M] SELENIUM (ELEMENT) [0-4.3M]	D004, D007, D010, D018, D019, D022, B

Activity Report

JOB NO: 2862554000 WO NO: 2862554000
BILL DOC NO KN60824704
GENERATOR NO 636286 EPA ID: NYD980535124

BILL TO: GENERAL ELECTRIC COMPANY
ATTN: JOHN URUSKYJ
319 GREAT OAKS BLVD
ALBANY, NY 12203
(518) 862-2717

JOB SITE: MALTA RFA
400 STONEBREAK ROAD EXTENSION
MALTA, NY 12020
(518) 862-2717

CONTACT: JOHN URUSKYJ

CONTACT: JOHN URUSKYJ

MANIFEST NUMBER(S):
001120359VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		08/30/2016	NY1

DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PG/LR	WASTE AREA
Manifest # 001120359VES WP 25683 / Approval MARDEBRIS SOIL/ SLUDGE	2	551A2-DM In 851A2-DM	400	P	1 / 3	
Manifest # 001120359VES WP 25683 / Approval MARDEBRIS SOIL/ SLUDGE	9	551A2-DM	2200	P	1 / 3	
Manifest # 001120359VES WP 25684 / Approval MARFS OILY SOLVENT LIQUID	6	551A1-DM In 851A2-DM	1800	P	1 / 1	
Manifest # 001120359VES WP 25688 / Approval MARCSWFUEL OILY WATER MIX	2	551A1-DM In 851A2-DM	500	P	1 / 2	
Manifest # 001120359VES WP 25688 / Approval MARCSWFUEL OILY WATER MIX	1	551A1-DM	100	P	1 / 2	
08/30/2016 Manpwr.- SUPERVISOR & ONE TECHNICAL ASSISTANT - 12:00 PM to 3:15 PM		305	1@3.25	HOUR		

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

Activity Report

JOB NO: 2082554000
BILL DOC NO KN80624704
GENERATOR NO 636288

WO NO: 2082554000

EPA ID: NYD980535124

BILL TO: GENERAL ELECTRIC COMPANY
ATTN: JOHN URUSKYJ
319 GREAT OAKS BLVD
ALBANY, NY 12203
(518) 862-2717

JOB SITE: MALTA RFA
400 STONEBREAK ROAD EXTENSION
MALTA, NY 12020
(518) 862-2717

CONTACT: JOHN URUSKYJ

CONTACT: JOHN URUSKYJ

MANIFEST NUMBER(S):
001120350VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		08/30/2018	NY1

DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PG/LB	WASTE AREA
08/24/2018 Manpwr. - FIELD SUPERVISOR MANIFEST PREPARATION		125	1@1	HOUR		
08/30/2018 Misc. SURCHARGE - ENERGY & SECURITY		3129	1	PERCNT		
08/30/2018 Misc. - STATE REGULATORY FEES		4419	1	EACH		

Total Hours: 4.25
# of Containers: 20
Total Pounds: 5000

Comments:

Signature: _____

Print Name: Adam Norvelle
~~as authorized agent of General Electric Company~~

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

Land Disposal Restriction Notification Form

Generator Name **MALTA RFA**

EPA ID Number **NYD980535124** Manifest **001120359VES**

This notice is being provided in accordance with 40 CFR 268.7 to inform you that this shipment contains waste restricted from land disposal by the USEPA under the land disposal restriction program. Identified below for each container is the designation of the waste as a wastewater or non-wastewater, the Clean Water Act (CWA) permit status associated with the treatment/disposal facility, applicable waste codes and any corresponding subcategories, list of any F001-F005 solvent constituents that are present in the waste, and any underlying hazardous constituents (UHC) that are present.

This notice is also being provided in accordance with 6 NYCRR 376.1(g)(1).

Container Number: **KN-2862554000-003 (1/ 1)**

WIP / Approval Code:	**025684 / MARFS**
Form Designation / CWA Status:	**Non-Wastewater / Non-CWA**
Waste Codes (Subcategories):	**D001 (IGNITABLE CHARACTERISTIC WASTE, LIQUIDS >= 10% TOC PER 261.2 1(a)(1)), D010, D018, D022, D035, D039**
Constituents (F001 - F005):	**None**
UHCs Present:	**None**
Treatment Requirements:	**Restricted waste requires treatment to applicable standards.**
Additional Notices:	

Container Number: **KN-2862554000-004 (1/ 2)**

WIP / Approval Code:	**025686 / MARCSWFUEL**
Form Designation / CWA Status:	**Non-Wastewater / Non-CWA**
Waste Codes (Subcategories):	**D018, D019, D022**
Constituents (F001 - F005):	**None**
UHCs Present:	**None**
Treatment Requirements:	**Restricted waste requires treatment to applicable standards.**
Additional Notices:	

Container Number: **KN-2862554000-005 (1/ 2)**

WIP / Approval Code:	**025686 / MARCSWFUEL**
Form Designation / CWA Status:	**Non-Wastewater / Non-CWA**
Waste Codes (Subcategories):	**D018, D019, D022**
Constituents (F001 - F005):	**None**
UHCs Present:	**None**
Treatment Requirements:	**Restricted waste requires treatment to applicable standards.**
Additional Notices:	

Container Number: **KN-2862554000-001 (1/ 3)**

WIP / Approval Code:	**025683 / MARDEBRIS**
Form Designation / CWA Status:	**Non-Wastewater / Non-CWA**
Waste Codes (Subcategories):	**D004, D007, D010, D018, D019, D022**
Constituents (F001 - F005):	**None**
UHCs Present:	**None**
Treatment Requirements:	**Restricted waste requires treatment to applicable standards.**
Additional Notices:	

Container Number: **KN-2862554000-002 (1/ 3)**

WIP / Approval Code:	025883 / MARDEBRIS
Form Designation / CWA Status:	Non-Wastewater / Non-CWA
Waste Codes (Subcategories):	D004, D007, D010, D018, D019, D022
Constituents (F001 - F005):	None
UHCs Present:	None
Treatment Requirements:	Restricted waste requires treatment to applicable standards.
Additional Notices:	

I hereby certify that all information in this and associated land disposal restriction documents is complete and accurate to the best of my knowledge and information.

Signature [redacted]

Title authorized agent of General Electric Company Date 8-30-2016

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 27140 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD980535124	1	(877) 918-0087	001120191 VES

GENERATOR

5. Generator's Name and Mailing Address
GENERAL ELECTRIC COMPANY
319 GREAT OAKS BOULEVARD
ALBANY, NY 12203
Generator's Phone: 518 862-2717

Generator's Site Address (if different than mailing address)
MALTA RFA
400 STONEBREAK ROAD EXTENSION
MALTA, NY 12020

6. Transporter 1 Company Name
VEOLIA ES TECHNICAL SOLUTIONS
U.S. EPA ID Number
NJD080631369

7. Transporter 2 Company Name
FREEHOLD CARTAGE INC
U.S. EPA ID Number
NJD054126164

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS
125 FACTORY LANE
MIDDLESEX, NJ 08846
Facility's Phone: 732 469-5100
U.S. EPA ID Number
NJD002454544

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, TETRACHLOROETHYLENE), 3, II, RQ (D001)	2	DM	600	P	D001	D018	D035
						D010	D022	B
	2.							
	3.							
	4.							

COPY

14. Special Handling Instructions and Additional Information ER Service Contracted by VEETS + 1) ERG: 128 W: 25684 A MARFB

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Brian Neumann as authorized agent of General Electric Company
Signature:
Month 09 Day 07 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ~~BOBBY POWELL~~ Chris Lewis
Signature:
Month 09 Day 07 Year 16

Transporter 2 Printed/Typed Name: Mike Hackett
Signature:
Month 9 Day 12 Year 16

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Camille Dirtle
Signature:
Month 9 Day 13 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

PACKING SUMMARY

Generator Number: 636288
MALTA RFA
400 STONEBREAK ROAD EXTENSION
MALTA, NY 12020
Attn: JOHN URUSKYJ
EPA ID: NYD980535124

Manifest Number: 001120191VES
Field System ID: KN
Work Order Number: 2611977000
Date Shipped: 09/02/2016
07

Container#: KN-2611977000-002 Waste Area: Manifest Page/Line: 01 / 1

WIP: 025684 DisposalCode: MARFS PHY State: L

Date Accumulated: 06/01/2016 Gen Drum ID:

Shipping Name: UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, TETRACHLOROETHYLENE), 3, II, RQ (D001)

No. of Commons: 02 Outer Container: 1101A2-DM Inner Container: 851A2-DM

Primary Waste Codes: D001,D010,D018,D022,D035,B PCB Serial #: OOS Date: / /

Total Cmns Wt: 600 SIC: 9999 Source: G13 Form: W205 System: H061 Cubic Ft.: 15.00

Individual Common Weights: 300, 300 (POUNDS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	55 GAL		BENZENE [0-194M] CHLOROFORM [0-273M] 2- BUTANONE [0-1350M] SELENIUM (ELEMENT) [0-9.3M] TETRACHLOROETHYLENE [0-80M]	D001, D010, D018, D022, D035, D039, B

Land Disposal Restriction Notification Form

Generator Name MALTA RFA

EPA ID Number NYD986535124 Manifest 001120101VES

This notice is being provided in accordance with 40 CFR 268.7 to inform you that this shipment contains waste restricted from land disposal by the USEPA under the land disposal restriction program. Identified below for each container is the designation of the waste as a wastewater or non-wastewater, the Clean Water Act (CWA) permit status associated with the treatment/disposal facility, applicable waste codes and any corresponding subcategories, list of any F001-F005 solvent constituents that are present in the waste, and any underlying hazardous constituents (UHC) that are present.

This notice is also being provided in accordance with 6 NYCRR 376.1(g)(1).

Container Number: KN-20119770000-002 (1/ 1)

WIP / Approval Code:	025084 / MARFS
Form Designation / CWA Status:	Non-Wastewater / Non-CWA
Waste Codes (Subcategories):	D001 (IGNITABLE CHARACTERISTIC WASTE, LIQUIDS >= 10% TOC PER 261.2 1(a)(1)), D010, D018, D022, D035, D039
Constituents (F001 - F005):	None
UHCs Present:	None
Treatment Requirements:	Restricted waste requires treatment to applicable standards.
Additional Notices:	

I hereby certify that all information in this and associated land disposal restriction documents is complete and accurate to the best of my knowledge and information.

Signature [signature]

Title Project Manager Date 9/7/16

Activity Report

JOB NO: 2611977000 WO NO: 2611977000
BILL DOC NO KN39698704
GENERATOR NO 630268 EPA ID: NYD980535124

BILL TO: GENERAL ELECTRIC COMPANY
ATTN: JOHN URUSKYJ
319 GREAT OAKS BLVD
ALBANY, NY 12203
(518) 862-2717

JOB SITE: MALTA RFA
400 STONEBREAK ROAD EXTENSION
MALTA, NY 12020
(518) 862-2717

CONTACT: JOHN URUSKYJ

CONTACT: JOHN URUSKYJ

MANIFEST NUMBER(S):
001120191VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		09/02/2016	NY1

DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # 001120191VES WIP 25684 / Approval MARFS OILY SOLVENT LIQUID 551A1 IN 851A2 IN 1101A2	2	851A2-DM in 1101A2-DM	600	P	1 / 1	
09/02/2016 Manpwr.- SUPERVISOR & ONE TECHNICAL ASSISTANT		305	1@1	HOUR		
09/02/2016 Misc. - ENERGY & SECURITY SURCHARGE		3129	1	PERCNT		
09/02/2016 Misc. - STATE REGULATORY FEES		4419	1	EACH		

Total Hours: 1
Containers: 2
Total Pounds: 600

Comments:

Signature:

Print Name: Brian Neumann

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

Luther Forest Technology Campus - EDC
519 Broadway
Saratoga Springs, NY 12866

Former Wright Malta Site
Malta, NY 12020

Generator's Phone: ~~518-853-2225~~

6. Transporter 1 Company Name: MC Environmental Services, Inc. — U.S. EPA ID Number: NYR000021071

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: ESMI OF NEW YORK, 304 TOWPATH ROAD, FORT EDWARD, NY 12828 USA — U.S. EPA ID Number: N/A

Facility's Phone: 518-747-5500

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Petroleum Contaminated Soil	3	DM	400	P	
2.	Petroleum Contaminated Soil	11	DF	1,500	P	
3.						
4.		14		1955		

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael B. Craft As Agent of — Signature: [signature] — Month: 9 Day: 23 Year: 16

INTL

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Michael B. Craft — Signature: [signature] — Month: 9 Day: 23 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Donella Fisher — Signature: [signature] — Month: 9 Day: 23 Year: 16

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	n/a	1.	800-451-8984	092316 - D1

5. Generator's Name and Mailing Address

ESMI OF NEW YORK
304 Towpath Road

Fort Edward, New York 12828

(518)747-5500

Ticket No :2717231
Date :9/23/16

Max. Acceptable Soil: 150.00

Customer: MCE10
MC ENVIRONMENTAL SERVICES
526 QUEENSBURY AVE.

QUEENSBURY, NY 12804

Job No : 10231
LUTHER FOREST
FORMER WRIGHT MALTA SITE
MALTA NY 12020

Running Tonnage: 0.55

Truck : . MC-RACK MC ENVIRONMENTAL
Location: DEFAULT

Gross : 18360 lb MAN WT In
Tare : 17260 lb Scale 1 Out

Net : 1100 lb
0.550 tn

Weigh Master: DONELLA_FISHER

License # 603581

Donella L Fisher

Material $
Delivery $
Misc $
Tax $

Total $

Remarks: 14 DRUMS

Signature: M. Cust

MATERIAL	QTY	UNIT-$	DELIVERY-$	MISC-$	TAX-$	TOTAL-$
02 #2 FUEL OIL	0.550 tn					

empty
drum debris
recycling

Lumber
Forest

R. Cohen Recycling, Inc. ED C
38 Geer Street
Glens Falls, NY 12801 Drums
(518) 792-2010
"Conserving the Future by
Recycling the Past"
*******PAID IN FULL*******

Ticket# RC-153134
Station: POS1 User: DEE
10/27/2016 11:43 AM

Item #	Lbs	Price	Total
100028 TIN	-2,360	0.0200 /LB	

Total Amount Paid:

Tender:
Checks Written
#13973
13973

Items returned: 2,360

MC ENVIRONMENTAL SERVICES
526 QUEENSBURY AVENUE
QUEENSBURY, NY 12804

Dealers In: Scrap Iron and Steel,
Nonferrous, Alloys and Waste Paper
Roll Off Container Service Available
Thank you for your patronage!!

MC Environmental Services, Inc.

526 Queensbury Avenue ♦♦ Queensbury, NY 12804
Phone: 518-615-0349 ♦♦ Fax: 615-0355 ♦♦ www.yesmces.com

Dates: 10/27/16 **Customer:** Luther Forest EDC

Location: Malta, NY

Project Name: Remove & Dispose Scrap Drums

NAME:	Job Description: 10/27/16 TIME START	TIME STOP	TIME HRS.	Job Description TIME START	TIME STOP	TIME HRS.	Job Description TIME START	TIME STOP	TIME HRS.	TOTAL HRS.
M. Carr	7:30 A	12:00 P	4.5							
J. Kimble	7:30 A	12:00 P	4.5							
EQUIPMENT:										
Tri-Axle 301			✓							
Mini Excavator			✓							
Service Truck 311			✓							
MATERIALS / NOTES:										

MCES Supervisor

Customer Approval By

8506400

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	(800) 535-5053	8506400

GENERATOR

5. Generator's Name and Mailing Address: ~~GENERAL ELECTRIC COMPANY~~ ~~MALTA RFA, 400 STONEBREAK RD. EXT.~~ ~~MALTA, NY 12020~~ 319 Great Oaks Blvd Albany, NY 12203

Generator's Site Address (if different than mailing address): Malta RFA 400 Stonebreak Rd Extension Malta, NY 12020

Generator's Phone: ~~(518) 862-2717~~

6. Transporter 1 Company Name: EQ NORTHEAST, INC. U.S. EPA ID Number: MAD 084 814 136

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: EQ DETROIT, INC. 1923 FREDERICK STREET DETROIT, MI 48211 U.S. EPA ID Number: MID 980 991 566

Facility's Phone: (313) 347-1300

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	01	DM	~~X~~129	P	
2.	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	01	DM	~~X~~30	P	
3.	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	01	DM	~~X~~123	P	
4.						

13. Special Handling Instructions and Additional Information

1. K160020DET / (S) DRILL SOIL CUTTINGS 2. K160023DET / (S) PPE, LAB DEBRIS 3. K160023DET / (S) PPE, LAB DEBRIS

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: ~~X~~ Authorized Agent Brian Neumann for General Electric Company ~~X~~ Signature: ~~X~~ Month 11 Day 15 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter Signature (for exports only):

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Troy Phillips Signature: Month 11 Day 15 Year 16

Transporter 2 Printed/Typed Name: Signature: Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☒ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

O/C to correct generator information per Brian Neumann, BCH 11-22-16 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator)

Facility's Phone: Month Day Year

17c. Signature of Alternate Facility (or Generator)

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Joseph Kosky Signature: Month 11 Day 21 Year 16

169-BLC-O 6 10498 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

US ecology

EQ Northeast, Inc.
185 Industrial Road
Wrentham, MA 02093

Emergency Response #:
Phone: (508) 384-6151
Fax: (508) 384-6028

Work Order: 8506400
Reference Code:
Arrival Time:
Date: 11/08/2016
Prepared By: Michelle Nowak

BILLING INFORMATION

Name: CB&I ENVIRONMENTAL & INFRAST Contact:
Acct. #: 10235-34 Title:
Phone: (813) 612-3639 Phone:
Addr: 725 US HIGHWAY 301 SOUTH Mobile: ( ) -
TAMPA, FL 33619 PO / Rel: 115161OS /

GENERATOR INFORMATION

Name: GENERAL ELECTRIC COMPAN Contact:
EPA #: N/A (ID: 155025) Title:
Phone: (518) 862-2717 Phone: ( ) -
Addr: MALTA RFA, 400 Mobile: ( ) -
STONEBREAK RD. EXT.
MALTA, NY 12020

TSDF INFORMATION

TSDF: EQ DETROIT, INC.
Addr: 1923 FREDERICK STREET
DETROIT,MI 48211

EPA #: MID980991566
Phone: (313) 347-1300
Fax: (313) 923-3375

Description: LTL PICKUP NON-HAZARDOUS WASTE FROM GROUNDWATER MONITORING
1x55DM DRILL SOIL CUTTINGS
1x55DM & 1x95DM LAB DEBRIS, PPE

On-Site Directions: SITE CONTACT: ADAM NORVELLE @ C: (630) 400-3334 & C: (518) 765-2359

Manifest: 8506400

TSDF: EQ DETROIT, INC.
Addr: 1923 FREDERICK STREET
DETROIT,MI 48211

EPA #: MID980991566
Phone: (313) 347-1300
Fax: (313) 923-3375

HM DESCRIPTION	TSDF: EQ DETROIT INC	EPA #: MID980991566			
		# OF CONT.	TYPE	QUANTITY	UNIT
1. NON-HAZARDOUS, NON-DOT REGULATED MATERIAL Approval Code: K160020DET (542704) Waste Codes: NONE Hand. Instruct:		01	DM	129	P
2. NON-HAZARDOUS, NON-DOT REGULATED MATERIAL Approval Code: K160023DET (542706) Waste Codes: NONE Hand. Instruct:		01	DM	xxx30	P
3. NON-HAZARDOUS, NON-DOT REGULATED MATERIAL Approval Code: K160023DET (542706) Waste Codes: NONE Hand. Instruct:		01	DM	123	P

EQUIPMENT ACKNOWLEDGMENT

Customer acknowledges that this equipment is suitable for the transportation, storage or other service to be provided.

Tractor #1826 Trailer #_____ Tanker #_____ Roll-Off Box #_____ W/ liner?_____ Spotted #_____ Picked_up #_____ Vac Fee _____

Driver Signature Date Customer Signature Date

Pickup	Date	Time	Explanation
Arrive at Shipper:	11.15.16	1:00pm	P/U Waste for d. spos
Start Loading:			
Finish Loading:			
Leave Site:			

SHIPMENT RECEIVED IN APPARENT GOOD ORDER (CONTENTS UNKNOWN) SUBJECT TO THE TERMS AND CONDITIONS OF THE UNIFORM STRAIGHT BILL OF LADING AND ANY GOVERNING CLASSIFICATIONS AND TARIFFS LAWFULLY ON FILE ON THE DATE OF SHIPMENT

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

Driver Signature 11.15.16 Date Customer Signature 11.15.16 Date

Delivery	Date	Time	Explanation
Arrive at TSDF:			
Start Unloading:			
Finish Unloading:			
Leave Site:			

Driver Signature Date Receiver Signature Date

016083447JJK

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	N/A	1	(800) 535-5053	016083447 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~GENERAL ELECTRIC COMPANY~~ ~~MALTA RFA, 400 STONEBREAK RD. EXT.~~ ~~MALTA, NY 12020~~ 319 Great Oaks Blvd Albany, NY 12203

Generator's Site Address (if different than mailing address): Malta RFA 400 Stonebreak Rd Extension Malta, NY 12020

Generator's Phone: (518) 862-2717

6. Transporter 1 Company Name: EQ NORTHEAST, INC. — U.S. EPA ID Number: MAD 084 814 136

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: EQ DETROIT, INC. 1923 FREDERICK STREET DETROIT, MI 48211 — U.S. EPA ID Number: MID 980 991 566

Facility's Phone: (313) 347-1300

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	001	DM	XX30	G	029L
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. K160021DET / (L) PURGE WATER

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Brian Neumann Authorized Agent for General Electric Company — Signature: [signature] — Month: 11 Day: 15 Year: 16

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Troy Phillips — Signature: [signature] — Month: 11 Day: 15 Year: 16
Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☒ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Ok to correct Generator Information per Brian Neumann BCH 11-22-16
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. ~~H141~~ L 18 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Josh Kosky — Signature: [signature] — Month: 11 Day: 21 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Work Order: 8506401

EQ Northeast, Inc.
185 Industrial Road
Wrentham, MA 02093

Emergency Response #:
Phone: (508) 384-6151
Fax: (508) 384-6028

Reference Code:
Arrival Time:
Date: 11/08/2016
Prepared By: Michelle Nowak

BILLING INFORMATION

Name: CB&I ENVIRONMENTAL & INFRAST Contact:
Acct. #: 10235-34 Title:
Phone: (813) 612-3639 Phone:
Addr: 725 US HIGHWAY 301 SOUTH Mobile: ( ) -
TAMPA, FL 33619 PO / Rel: 115181OS /

GENERATOR INFORMATION

Name: GENERAL ELECTRIC COMPAN Contact:
EPA #: N/A (ID: 155025) Title:
Phone: (518) 862-2717 Phone: ( ) -
Addr: MALTA RFA, 400 Mobile: ( ) -
STONEBREAK RD. EXT.
MALTA, NY 12020

TSDF INFORMATION

TSDF: EQ DETROIT, INC.
Addr: 1923 FREDERICK STREET
DETROIT,MI 48211

EPA #: MID980991566
Phone: (313) 347-1300
Fax: (313) 923-3375

Description: LTL PICKUP NON-HAZARDOUS WASTE FROM GROUNDWATER MONITORING
1x55DM PURGE WATER

On-Site Directions: SITE CONTACT: ADAM NORVELLE @ C: (530) 400-4334 & O: (513) 733-2359

Manifest: 010893447JJK

TSDF: EQ DETROIT, INC.
Addr: 1923 FREDERICK STREET
DETROIT,MI 48211

EPA #: MID980991566
Phone: (313) 347-1300
Fax: (313) 923-3375

HM DESCRIPTION

1. NON-HAZARDOUS, NON-DOT REGULATED MATERIAL
Approval Code: K160021DET (542705) Waste Codes: 029L
Hand. Instruct:

# OF CONT.	TYPE	QUANTITY	UNIT
01	DM	030	G

EQUIPMENT ACKNOWLEDGMENT

Customer acknowledges that this equipment is suitable for the transportation, storage or other service to be provided.

Tractor # 1136 Trailer #____ Tanker #____ Roll-Off Box #____ w/ liner ____ Spotted #____ Picked_up #____ Vac Fee ____

Driver Signature 11-15-16 Date Customer Signature Date

Pickup	Date	Time	Explanation
Arrive at Shipper:	11-15-16	1:00	P/U Waste for disposal
Start Loading:			
Finish Loading:			
Leave Site:			

SHIPMENT RECEIVED IN APPARENT GOOD ORDER (CONTENTS UNKNOWN) SUBJECT TO THE TERMS AND CONDITIONS OF THE UNIFORM STRAIGHT BILL OF LADING AND ANY GOVERNING CLASSIFICATIONS AND TARIFFS LAWFULLY ON FILE ON THE DATE OF SHIPMENT

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

Driver Signature 11-15-16 Date Customer Signature 11-15-16 Date

Delivery	Date	Time	Explanation
Arrive at TSDF:			
Start Unloading:			
Finish Unloading:			
Leave Site:			

Driver Signature Date Receiver Signature Date

Please comment on the job so we can continue to provide better service: ☐ Excellent ☐ Satisfactory ☐ Poor