BUILDING 817/WEAPONS STORAGE AREA SUPPLEMENTAL INVESTIGATION REPORT FORMER GRIFFISS AIR FORCE BASE ROME, NEW YORK

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ABBREVIATIONS AND ACRONYMS

µg/kg	Microgram(s) Per Kilogram
μg/L	Microgram(s) Per Liter
AFB	Air Force Base
AFRPA	Air Force Real Property Agency
AMSL	Above Mean Sea Level
AOC	Area of Concern
bgs	Below Ground Surface
B817	Building 817
BRAC	Base Realignment and Closure
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
cis-1,2-DCE	cis-1,2-dichloroethene
CSM	Conceptual Site Model
CVOC	Chlorinated Volatile Organic Compound
DFAS	Defense Finance and Accounting Service
EAB	Enhanced anaerobic bioremediation
EADS	Eastern Air Defense Sector
E&E	Ecology and Environment
EEEPC	Ecology and Environment Engineering, P.C.
FFA	Federal Facilities Agreement
FPM	FPM Group, Inc.
ft/day	Feet Per Day
ft/ft	Foot Per Foot
GAFB	Griffiss Air Force Base
GC/MS	Gas Chromatography/Mass Spectometry
IRP	Installation Restoration Program
ISCO	In Situ Chemical Oxidation
MH	Manhole
MNA	Monitored Natural Attenuation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MIP	Membrane Interface Probe
mL	Milliliter(s)
NA	Not Applicable
NELAP	National Environmental Laboratory Accreditation Program
NYANG	New York Air National Guard
NYLD	New York Leak Detection, Incorporated
NYSDEC	New York State Department of Environmental Conservation
OPS	Operating Properly and Successfully

LIST OF ACRONYMS

(Continued)

PDI	Pre-Design Investigation
RAWP	Remedial Action Work Plan
RI	Remedial Investigation
ROD	Record of Decision
SAC	Strategic Air Command
SI	Supplemental Investigation
SIM	Selective Ion Monitoring
SOP	Standard Operating Procedure
SP22	Screen Point 22
Stone	Stone Environmental, Incorporated
TCE	Trichloroethene
USEPA	United States Environmental Protection Agency
VC	Vinyl Chloride
VOA	Volatile Organic Analysis
VOC	Volatile Organic Compound
WSA	Weapons Storage Area

EXECUTIVE SUMMARY

A Supplemental Investigation (SI) was completed at the Building 817 (B817)/Weapons Storage Area (WSA) site with the overall goal of providing a better understanding of the effectiveness of the remedy in place and facilitating a decision on whether pursuit of an Operating Properly and Successfully (OPS) determination is an appropriate next step. The specific objectives of this SI were to: (1) provide detailed chemistry data regarding the chlorinated volatile organic compound (CVOC) source location near Building 817, (2) provide high resolution characterization of the thin, fine-grained stratigraphic layer identified during a previous investigation, and (3) assess whether a secondary CVOC source exists downgradient of the existing vegetable oil injection wells. A Geoprobe® was used to rapidly collect closely-spaced soil and groundwater samples at varying depths along multiple transects across the CVOC plume, with detailed core logging and rapid analysis of samples in a mobile, onsite laboratory. Additionally, information was collected on the building drains, sump, and utilities at and near B817.

The B817/WSA site is located on the north side of the main runway between B817 and the culverted section of Six Mile Creek south of the former WSA. B817, constructed in the 1950s, was once used for electronics parts maintenance, and the solvents trichloroethene (TCE) and tetrachloroethene (PCE) were used in small quantities at this location.

The primary contaminants in groundwater exceeding New York State Department of Environmental Conservation (NYSDEC) Class GA Groundwater Standards are TCE and PCE. Site groundwater migrates southwest toward the culverted section of Six Mile Creek. The contaminated water-bearing zone is composed of relatively uniform fine sand and silty sand that begins at approximately five feet below ground surface (bgs) and extends to a thin layer of glacial deposits (fine-grained silt and clay with lenses of sand) overlying shale bedrock at approximately 20 to 25 feet bgs. The remedy for B817 provided in the Record of Decision is enhanced bioremediation to remove CVOCs from site groundwater, followed by monitored natural attenuation (MNA); the cleanup goals for the site are NYSDEC Class GA Groundwater Quality Standards.

The B817 evaluation conducted in July 2014 included a smoke test of the 1.5-inch sump discharge line from the sump located in the center south portion of B817. During the test, smoke was observed coming from three floor drains within the building. Smoke was not observed coming from the ground or any other location outside B817. Therefore, the results of the smoke test were inconclusive in that the subsurface route of the sump drain was not determined.

A total of 106 soil samples and 22 groundwater samples were collected in August 2014. The SI results show that soil and groundwater CVOC concentrations have decreased within the bioremediation treatment zone, and maximum groundwater concentrations have decreased downgradient of the treatment zone. However, CVOC concentrations remain elevated relative to the treatment area both downgradient and sidegradient of the treatment area. Smaller-scale site features identified during the SI may exert significant control over contaminant fate and transport. These features, which were not previously recognized during installation and sampling of conventional monitoring wells and soil borings, include variations in soil type and grain size (i.e., subsurface heterogeneities) that cause contaminant concentrations to vary substantially over small distances and to be highly localized. Concentration profiles indicate that PCE/TCE mass is

sorbed in fine-grained (silt/clay) material underlying the primary transmissive (sandy) zone. Over time the sorbed CVOCs diffuse out of the finer-grained units into the transmissive zone, thereby contributing to plume persistence. The observations made during this SI indicate the site has a late stage, mature plume, consistent with back diffusion as the primary remaining source.

The low CVOC concentrations directly surrounding the vegetable oil injection area support that the remedy (enhanced bioremediation) is operating properly, and is protective of human health and the environment. Continued use of MNA with institutional controls will eventually achieve cleanup goals. Therefore, proceeding with an OPS determination is recommended.

It is also recommended that the conceptual site model (CSM) be updated with the additional site data obtained during the SI. The additional data include higher CVOC concentrations sidegradient (northwest) of the treatment area, as well as stratigraphic and hydrogeologic heterogeneities including lower permeability deposits ubiquitous throughout the SI area. Analytical modeling will be used to determine the value of additional active remediation.

Finally, an additional site investigation is recommended to further delineate the northwest portion of the contaminated area. The additional investigation is expected to include further direct push sampling of soil and groundwater and installation of at least one additional monitoring well.

INTRODUCTION

1.1 GRIFFISS AIR FORCE BASE

The former Griffiss Air Force Base (GAFB) is located in Oneida County, New York, in the City of Rome. The base property covers approximately 3,540 acres and is situated in the relatively broad valley of the Mohawk River at an elevation of 504 feet above mean sea level (AMSL) (**Figure 1-1**).

GAFB, originally named Rome Air Depot, was activated on February 1, 1942, with the mission of storage, maintenance, and shipment of material for the U.S. Army Air Corps. Upon creation of the Air Force in 1947, the depot was renamed Griffiss Air Force Base. The base became an electronics center in 1950, with the transfer of Watson Laboratory Complex. This complex was subsequently known as Rome Air Development Center [1951], Rome Laboratory, and then the Air Force Research Laboratory Information Directorate, established with the mission of accomplishing applied research, development, and testing of electronic airground systems. The 49th Fighter Interceptor Squadron was also added. The Headquarters of the Ground Electronics Engineering Installations Agency was added in June 1958 to engineer and install ground communications equipment throughout the world. On July 1, 1970, the 416th Bombardment Wing of the Strategic Air Command (SAC) was activated with the mission of maintenance and implementation of both effective air refueling operations and long-range bombardment capability (Air Force Real Property Agency [AFRPA], 2009).

GAFB was designated for realignment under the Base Realignment and Closure (BRAC) Act in 1993 and 1995, resulting in deactivation of the 416th Bombardment Wing in September 1995. The Air Force Research Laboratory Information Directorate and the Eastern Air Defense Sector (EADS) will continue to operate at their current locations. The New York Air National Guard (NYANG) operated the runway for the 10th Mountain Division deployments until October 1998, when they were relocated to Fort Drum, and the Defense Finance and Accounting Service (DFAS) has established an operating location at the former GAFB (AFRPA, 2009).

On July 22, 1987, the base was listed on the United States Environmental Protection Agency (USEPA) National Priority List, which brought the installation under the federal facilities provisions of Section 120 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). In August 1990, the Air Force, USEPA, and the New York State Department of Environmental Conservation (NYSDEC) entered into a Federal Facilities Agreement (FFA) for environmental remediation at a number of sites at the former GAFB (AFRPA, 2009). On March 20, 2009, 2,897.2 acres were deleted from the NPL. The focus of this report, Building 817 (B817)/Weapons Storage Area (WSA), is within the 655 acres remaining on the NPL.

1.2 BUILDING 817/WEAPONS STORAGE AREA

The B817/WSA site is located on the north side of the main runway between B817 and the culverted section of Six Mile Creek south of the former WSA. B817, constructed in the 1950s,

was once used for electronics parts maintenance, and the solvents trichloroethene (TCE) and tetrachloroethene (PCE), both chlorinated volatile organic compounds (CVOCs), were used in small quantities at this location. The Installation Restoration Program (IRP) Site number is SD-52-05.

Site groundwater migrates southwest from the B817 area within a surficial water-bearing zone consisting primarily of unconsolidated sand and silty sand toward the culverted section of Six Mile Creek. The primary contaminants in groundwater samples exceeding NYSDEC Class GA Groundwater Standards are TCE and PCE. The B817 Site Plan is provided in **Figure 1-2**.

1.3 PURPOSE AND OBJECTIVES

The primary objectives of this Supplemental Investigation (SI) were to: (1) provide additional information about the CVOC source location near B817, and (2) determine if a secondary CVOC source exists downgradient of the existing line of substrate injection points. Additionally, information was collected on the drains, sump, and utilities at and near B817. SI activities included a building evaluation and a direct push investigation. The direct push investigation included the use of a Geoprobe® to rapidly collect closely-spaced soil and groundwater samples at varying depths along multiple transects across the plume with detailed core logging and rapid analysis of samples in a mobile, onsite laboratory to guide the sampling program according to pre-determined decision logic. The purpose of the investigation was to provide a more detailed understanding of the source area, identify variations in CVOC concentrations with depth and soil type, and support future remedial decisions for the Site.

1.4 REPORT ORGANIZATION

This Supplemental Investigation Report is organized in six sections and four appendices:

- Section 1 Introduction
- Section 2 Background Information
- Section 3 Supplemental Investigation Activities
- Section 4 Results of Supplemental Investigation
- Section 5 Conclusions and Recommendations
- Section 6 References
- Appendix A Boring Logs
- Appendix B Laboratory Data
- Appendix C Daily Field Reports
- Appendix D Building 817/WSA Predesign Investigation Map

BACKGROUND INFORMATION

2.1 PREVIOUS INVESTIGATIONS

2.1.1 Remedial Investigation (1994)

TCE was initially detected in groundwater from downgradient well LAWMW-9 (7.6 micrograms per liter $[\mu g/L]$) during the Remedial Investigation (RI) in 1994 (Law Engineering and Environmental Services, 1996), indicating that there could be a source of contamination in this area. The well location is shown in **Figure 1-2**.

2.1.2 Supplemental Investigations (1998 and 2000)

An SI (Ecology & Environment, Inc. [E&E], 1998) was subsequently performed in 1997 in which three temporary monitoring wells were installed around well LAWMW-9. An additional SI was conducted in 2000 to complete the lateral and vertical delineation of the contaminant plume (E&E, 2001). This investigation included collecting 56 Geoprobe[®] groundwater grab samples at 36 locations; 13 of the 36 locations were vertically profiled.

2.1.3 Bedrock Groundwater Study (2002)

A bedrock groundwater study for Building 817/WSA conducted in 2002 (E&E, 2002) consisted of the installation of three new bedrock wells (WSA-MW12Br, WSA-MW13Br, and WSA-MW14Br), as well as one new overburden monitoring well. The bedrock groundwater study concluded that groundwater contamination observed in the overlying overburden aquifer did not appear to have migrated downward into the underlying bedrock at the site.

2.1.4 Treatability Study Pilot Test (2002-2004)

Based on the results of groundwater sampling performed in 2000, the area in the vicinity of monitoring well WSA-MW11 was selected to conduct an *in situ* chemical oxidation (ISCO) pilot study (E&E, 2004). This area exhibited elevated groundwater concentrations, and was believed to represent a significant portion of the total contaminant mass in the plume. Four injection wells were installed to target the contaminant zone (approximately 10 to 20 feet below ground surface [bgs]). During the pilot-scale program at B817/WSA, a total of approximately 8,000 gallons of 0.6% potassium permanganate was injected in 2002, and follow-up monitoring was performed into 2004. Overall, the pilot test results suggested that ISCO may be a viable treatment option for the CVOC plume at the site, though there may be possible preferential pathways in the subsurface, as indicated by the rapid migration of oxidant from the injection array to WSA-MW15.

2.1.5 Pre-Design Investigation (2006)

A pre-design investigation (PDI) using a Geoprobe[®]-mounted Membrane Interface Probe (MIP) was performed in October 2006 to better define the suspected contaminant source area near B817 (E&E, 2007). Twenty-two MIP borings were advanced from just north of Perimeter

Road to approximately 150 feet northeast of B817. The MIP borings were located north (hydraulically upgradient) of B817, near the southwest corner of B817 in the vicinity of an unlined sump along the south wall of B817 that was a suspected collection/disposal point for fluids, and southwest (hydraulically downgradient) of B817 along an underground utility corridor that was a suspected preferential contaminant migration pathway. Each boring was advanced to refusal, which occurred at depths of 14 to 27 feet bgs. Permanent monitoring well MW-001 was installed approximately 10 feet upgradient (northeast) of MIP location M1 where high concentrations of CVOCs were detected in 2006 (see **Figure 1-2**). **Appendix D** provides a large-scale map of the PDI as a reference.

Based on historical groundwater quality data, MIP data, and confirmatory soil sample results, it was concluded that a contaminant source area was not present in the area north of B817. Similarly, the MIP investigation near the downgradient utility corridor extending to the southwest from B817 did not detect the presence of CVOCs at levels that would indicate a source soil in the saturated or unsaturated zones. Because of elevated MIP readings near the southwest corner of B817 at a depth of 15 to 16 feet bgs, one soil and one groundwater sample were collected at that location and depth. The soil sample analysis detected 100 micrograms per kilogram (μ g/kg) TCE and the water sample contained 200 μ g/L PCE, 560 μ g/L TCE, 1,800 μ g/L cis-1,2-dichloroethene (cis-1,2-DCE), and 88 μ g/L vinyl chloride (VC). These concentrations were substantially higher than concentrations measured in groundwater samples from site monitoring wells installed upgradient and downgradient of B817. Observation of the soil sample results and MIP data indicated an area of elevated contaminant concentrations immediately adjacent to the southwest corner of B817 near the unlined sump within the building.

The fact that the MIP response adjacent to the southwest corner of B817 did not show contamination from 0 to 15 feet bgs indicates that the contamination detected at 15 to 16 feet bgs did not originate at that location (i.e. from a surface or near-surface release) but was likely sourced further upgradient, perhaps beneath B817.

As part of this SI Report, the PDI groundwater data obtained from Geoprobe® grab sampling and sampling of monitoring wells were compiled to depict PCE and TCE concentrations in groundwater across the site prior to remedial actions. This provides a "baseline" condition to compare with current concentrations. **Figures 2-1** and **2-2** depict these historical PCE and TCE concentrations in groundwater, respectively.

2.2 SITE GEOLOGY/HYDROGEOLOGY

Site geology consists of an approximately 10- to 30-foot-thick fine sand and silty sand unit (termed the upper sand in this report) overlying glacial silt and clay with sand lenses (till) and weathered bedrock; the bedrock is encountered at approximately 20 to 25 feet bgs. Groundwater contamination has not been detected in the bedrock.

During the PDI (E&E, 2007) a tight, six-inch-thick, silty clay layer was observed at approximately 15 feet bgs, indicating the potential for more widespread clay lenses within the sandy layer. During this SI, an approximately 5-foot-thick layer of fine-grained, heterogeneous soil consisting of silt, clay, and sand was encountered at the base of the silty sand layer, and immediately overlying the shale bedrock. It was observed that the 6-inch silty clay layer noted

during the PDI marks the transition between the upper sand and the underlying more heterogeneous material.

Figure 2-3 provides a revised and updated version of the geological cross-section of the B817 site initially presented in the PDI report; updates include addition of monitoring and substrate injection wells installed along and near the cross-section line, revision of CVOC plume contours based on September 2013 monitoring well sampling results, and additional stratigraphic information obtained during the 2014 SI field sampling event.

The depth to groundwater across the site in September 2013 varied from approximately 2 feet bgs at well WSA-MW16 to 20 feet bgs at well WSA-MW21. Slug test results reported by E&E (2004) indicate that the hydraulic conductivity of the transmissive silty sand zone ranges from approximately 8 to 106 feet/day (ft/day) with a geometric mean of approximately 27 ft/day. The horizontal hydraulic gradient in the overburden groundwater was reported to be 0.04 foot/foot (ft/ft) in the Final Groundwater Treatability Pilot Study, based on data collected in May 2002 (E&E, 2004). This gradient is similar to that indicated by the potentiometric surface map for September 2012 presented in the Spring 2013 Annual Monitoring Report (FPM Group, Inc. [FPM], 2013) (0.045 ft/ft between wells B817MW-003 and WSA-MW21). Given an approximate hydraulic gradient of 0.04 ft/ft, a hydraulic conductivity range based on slug tests of 8 to 106 ft/day, and an assumed effective porosity for the sandy, transmissive zone of 0.25, the calculated range in groundwater seepage velocity is 1 to 17 ft/day. Site data and concentration analyses suggest that the velocity is closer to the low end of the range (1 foot/day) given that contaminant degradation is rate-limited and the CVOC plume has not reached the creek. This observation is consistent with groundwater seepage velocity estimates of 4.8 ft/day presented in the Treatability Pilot Test report (E&E, 2004) and 0.29 ft/day presented in the PDI report (E&E, 2007).

2.3 SELECTED REMEDY

The recommended remedy selected for the B817/WSA site as detailed in the Record of Decision (ROD, AFRPA [2009]) is enhanced bioremediation to remove CVOCs from site groundwater. Enhanced bioremediation increases the rate of biodegradation of the groundwater contaminants, in this case by injecting a vegetable oil emulsion into the saturated zone. The vegetable oil emulsion enhances the natural degradation of CVOCs, reducing their concentration.

The cleanup goals for the site are NYSDEC Class GA Groundwater Quality Standards for CVOCs. In addition to enhanced bioremediation, the remedy includes institutional controls in the form of deed restrictions for affected groundwater, and a contingency plan of an air sparge wall (or other agreed upon action) if the surface water samples from the culverted section of Six Mile Creek contain elevated concentrations of DCE or VC that could be attributed to the site. Remaining CVOCs not fully treated by the enhanced bioremediation remedy are expected to attenuate naturally, and monitored natural attenuation (MNA) is used to monitor these processes (AFRPA, 2009).

To implement the enhanced bioremediation remedy, two separate vegetable oil injections have been performed at the site using seven permanent injection wells. The initial injection occurred in July 2008 (see *Final Interim Remedial Action Report*, Ecology and Environment Engineering, P.C. [EEEPC], 2011). The second injection occurred in July 2010, as described in the *Spring 2010 Annual Report Performance Monitoring* (FPM, 2011, Appendix D). The

injection wells are screened between 9 and 20 feet bgs, spanning the interval of the elevated MIP reading obtained near the southwest corner of B817 at a depth of 15 to 16 feet bgs. Vegetable oil injection locations are shown in the Site Plan (**Figure 1-2**).

SUPPLEMENTAL INVESTIGATION ACTIVITIES

3.1 INTRODUCTION

This section presents the SI methodology and scope of work for soil and groundwater activities at the B817/WSA site. A dynamic work plan was prepared that outlined the use of a direct-push probe to rapidly collect closely-spaced soil and groundwater samples at varying depths along multiple transects across the plume with detailed core logging. Samples were analyzed in a mobile, onsite laboratory to guide the sampling program according to predetermined decision logic (Parsons, 2014). Field decisions were made using near-real time data combined with the decision logic outlined in the work plan, allowing sampling locations to be progressively optimized to effectively achieve the objectives to the extent feasible within the allotted 1-week time period.

3.2 BUILDING EVALUATION

A building evaluation was conducted on July 12, 2014, and included a smoke test of the 1.5inch sump discharge line from the sump located adjacent to the approximate center of the south wall of B817. The sump line transitions to a 4-inch line further from the sump. Sewer testing smoke candles were lit and inserted into the pipe and a blower applied to the discharge pipe. Smoke candles were applied three times over a 1-hour period.

In addition, a ground penetrating radar (GPR) and utility/cable locator were used on July 17, 2014, to help identify underground utility corridors and other potential pathways. The utility location/GPR was conducted by New York Leak Detection, Incorporated (NYLD).

3.3 SOIL AND GROUNDWATER INVESTIGATION

Soil samples were collected August 11 through 15, 2014, using a discrete sampler mounted onto a Geoprobe® system. Geoprobe® borings were advanced within an approximate 200-foot by 125-foot investigation area along seven transects across the groundwater plume as shown in **Figure 3-1**, for a total of 43 borings. These transects are described below:

- Transect 0 is located west of B817 and is comprised of only one boring. This transect location was chosen because elevated CVOC concentrations were previously detected in groundwater approximately 10 feet west of the line of vegetable oil injection wells; the boring was advanced to better understand the upgradient extent of the detected CVOC concentrations
- Transect 1 is located between the building and injection wells. The transect includes 10 borings and extends from just east of the sump to approximately 100 feet west of the end of the line of vegetable oil injection wells. This transect location was chosen due to the elevated CVOC concentrations detected in this area during the PDI from 15 to 16 feet bgs (Section 2.1.3) and the proximity to the building and sump within the building.
- Transect 2 is located near monitoring well B817-MW-003, and includes eight borings. The rationale for this location was that there was a sharp spike in the MIP

response at location MIP-02 from 16 to 17 feet bgs, which may indicate the presence of a clay lens containing sorbed contaminants that acts as a secondary source of contamination. Also, the groundwater data indicate that PCE/TCE concentrations increase between wells B817-MW-02 and WSAMW-18, indicating the potential presence of secondary (sorbed) "source" mass somewhere in that portion of the site.

- Transect 2.5 is midway between Transects 2 and 3, and includes six borings. The rationale for this transect was the same as for Transect 2.
- Transect 3 is located at monitoring well WSA-MW18 and includes 7 borings; this transect is located in an area where the MIP investigation indicated more elevated levels of CVOCs.
- Transect 4 is located just north of Perimeter Road and includes six borings. The rationale for this transect was to obtain additional information further downgradient of well WSAMW-18.
- Transect 5 is located south of Perimeter Road and includes five borings. This transect was chosen for the same reason as Transect 4.

Up to three soil samples were collected from each boring along all seven transects, for a total of 106 primary soil samples. In addition, two pairs of matrix spike/matrix spike duplicate (MS/MSD) samples were collected. Continuous core was collected from the ground surface to bedrock. Samples for laboratory analysis were collected from 5 feet to 20 feet bgs.

Groundwater samples were collected using a Geoprobe® Screen Point 22 (SP22) sampler from August 13 through 15, 2014. The sampler was equipped with a 6-inch-long screen to allow profiling of a sub-foot interval. All borings were described in boring logs, provided in Appendix B of this SI report. The Standard Operating Procedure (SOP) for the SP22 sampler is provided in the Remedial Action Work Plan (RAWP) Addendum (Parsons, 2014). In addition, a water sample was also collected from Manhole 2. For sample collection, an empty sample bottle was submerged into the manhole and retrieved once filled. Soil and groundwater samples were analyzed on-site using MobiLabTM, a field laboratory operated by Stone Environmental, Inc. (Stone). The soil samples were collected and preserved in 10 milliliters (mL) of methanol by Parsons personnel; water samples were collected in unpreserved 40-mL volatile organic analysis (VOA) vials. Samples were hand delivered to the onsite laboratory immediately after collection; therefore, receipt temperatures were not measured. Soil samples were stored in a freezer in the laboratory before and after analysis. Water samples were stored in the refrigerator (<6° Celsius) before and after analysis.

Samples were analyzed by USEPA SW846 Method 8260C (gas chromatography / mass spectrometry [GC/MS]) set in selective ion monitoring (SIM) mode for five target CVOCs in accordance with Stone's SOP SEI-10.15.11 (*The Determination of Volatile Organic Compounds By GC/MS (SW846 USEPA Method 8260C*); this SOP was provided in the RAWP Addendum (Parsons, 2014). Stone's GC/MS Method 8260C is provided under the National Environmental Laboratory Accreditation Program (NELAP) fields of testing, for which Stone holds NELAP accreditation for soil and water in the State of New York. The analytical results associated with the samples were generated under a quality system that adheres to requirements specified in the NELAP standards.

3.4 MONITORING WELL INSTALLATION

Following the Geoprobe® soil and groundwater investigation, a cluster of three monitoring wells was planned for installation upgradient of the injection points with the intent of monitoring three small, vertically discrete zones of groundwater. The purpose of this well cluster was to obtain additional contaminant source characterization information near the eastern end of the building. However, preliminary results of the investigation determined that no additional monitoring wells are necessary due to the low concentrations of VOCs between the building and the vegetable oil injection locations. Therefore, no additional monitoring wells were installed at the site. See Section 4 for details regarding investigation results. Additional monitoring well(s) may be installed at a later time, as appropriate.

RESULTS OF SUPPLEMENTAL INVESTIGATION

4.1 INTRODUCTION

This section presents the results from the 2014 SI. A building evaluation was conducted in July 2014, and in August 2014, 43 borings were advanced and logged, and 106 soil samples and 22 groundwater samples were collected and analyzed on-site. Two sets of MS/MSD analyses were analyzed for the soil matrix (samples 4-6-19 and 2.5-4-18) and one set was analyzed for the water matrix (2.5-5 (10-13)). Complete analytical results are provided in **Appendix B**.

4.2 BUILDING EVALUATION

During the July 2014 smoke test, smoke was observed coming from three floor drains within the building (front overhead door and two former restrooms). It was expected that the smoke would be observed at the B816 lift station; however, this was not the case and there was no evidence that the sump drain connects to the lift station. Smoke was not observed coming from the ground or any other location outside B817. Therefore, the results of the smoke test were inconclusive.

NYLD performed a utility location/GPR at the site on July 17, 2014. Equipment used for the GPR included a 250 millihertz (mHz) and a 500 mHz Noggin radar systems, and a MetroTech Vivax vLocPro2 pipe and cable locator. Utilities were located from the front of Building 817 to the fence line across Perimeter Road; utility lines are shown in **Figure 1-2** of this SI report.

4.2 GEOPROBE INVESTIGATION

4.2.1 Revised Geology

Site geology was further characterized by more detailed logging of continuous soil cores; boring logs from the investigation are provided in **Appendix B** of this SI report. Geologic cross sections were constructed to depict subsurface conditions; cross-section lines are shown in **Figure 4-1**. **Figure 4-2** shows the geology along the approximate longitudinal axis of the CVOC plume. The geology along this cross-section line consists of an approximately 10- to 18-foot-thick, higher permeability, fine sand and silty sand unit (the upper sand) underlain by a 2- to 5-foot-thick glacial silt and clay mixture, which overlies a 1- to 4-foot-thick, lower sand/silt unit that rests on weathered shale. Additionally, a lower silty clay lense was present along Transect 5 (cross-section boring BH-5-3). The finer-grained, lower-permeability zones are more ubiquitous than previously thought.

4.2.2 Soil

A tabulated summary of laboratory results for soil are provided in **Table 4-1**. Generally speaking, soil CVOC concentrations were low upgradient and directly downgradient of the vegetable oil injection wells (e.g., Transects 0, 1 and 2) and increased further downgradient of the vegetable oil injection wells (e.g., Transects 2.5, 3, 4 and 5). The highest concentrations of PCE, DCE and VC were found at two borings along Transect 2.5, at depths of 15' bgs and 18' bgs; the highest concentration of TCE was found along Transect 5 at a depth of 14' bgs. Higher

concentrations of PCE and TCE were also found in samples in boring 1-10 in Transect 1. Transect 1 is located just upgradient of the vegetable oil injection wells, which is generally within the treatment zone. However, boring 1-10 is approximately 100 feet northwest of the treatment zone extent, which is where the higher concentrations of CVOCs were found along this transect.

Figures 4-3, and **4-5** present PCE, TCE, and DCE concentration isopleths for soil, respectively. The highest PCE and TCE concentrations are outside of the enhanced anaerobic bioremediation (EAB) treatment zone, with relatively elevated concentrations northwest and downgradient of the treatment zone (downgradient concentrations beginning at Transect 3 for PCE and Transect 2.5 for TCE). The highest concentration of DCE was detected at the center of Transect 2, which is coincident with the downgradient side of the EAB treatment area.

Figure 4-6 presents soil concentration pie charts depicting the molar ratios of CVOCs at each boring location. Note that the pies are equally sized and not sized relative to the total concentration at each boring. The figure shows that concentrations are mostly dominated by TCE with some borings having variable proportions of PCE. DCE concentrations were only detected along transects 1, 2 and 2.5, within and immediately downgradient of the EAB treatment zone. The only locations that were completely non-detect for CVOCs are located within the treatment area. Due to the general absence of VC in the soil, this parameter was excluded from the pie charts.

Figure 4-7A presents a graph showing total CVOC soil concentrations versus elevation for all samples, with a typical MIP log from within the plume (2006 PDI). The graph shows that the higher CVOC concentrations are located in the interval occupied by the finer-grained units underlying the primary transmissive (upper sand) zone. This observation is consistent with the PDI MIP results, which also indicate that the upper sand generally has relatively low CVOC concentrations, while the underlying finer-grained, less transmissive materials contain a majority of the CVOC mass. **Figure 4-7B** demonstrates that the maximum concentration was detected in the glacial fine grained material. The average CVOC concentrations in the glacial fine-grained material, lower sand, and weathered shale are similar. The upper sand has lower CVOC concentrations than the underlying units, indicating that most of the CVOC mass is below the upper sand, which is also the more significant flow zone. These plots support the hypothesis that back-diffusion of PCE and TCE into the transmissive zone (upper sand) is contributing to plume persistence, which is characteristic of a late stage plume.

Figure 4-8 presents the centerline cross section A-A' with soil concentrations. A discrete CVOC source within the soil was not identified. Contamination was found throughout the SI investigation area, but was more concentrated in the fine-grained, lower permeability unit below the upper sand. **Figure 4-9** presents cross section B-B' along Transect 2.5. **Figure 4-10** presents cross section C-C' along Transect 1, immediately upgradient of the vegetable oil injection wells.

4.2.3 Groundwater

A tabulated summary of laboratory results for groundwater is provided in **Table 4-2**. **Figure 4-11** provides a chart comparing the SI groundwater results along Transect 1 with the baseline (2006) concentrations. This figure indicates that CVOC concentrations have decreased within the bioremediation treatment zone since 2006, because all treatment area CVOC concentrations are considerably less than the baseline (2006) concentrations. The highest total CVOC

concentrations detected in 2014 occurred at BH-1-10, which is sidegradient to the treatment zone. Levels of cis-DCE, a daughter product of PCE and TCE, were elevated during the baseline sampling event. However, concentrations of CVOCs within the EAB treatment zone have decreased at a faster rate than downgradient of the treatment zone, indicating the EAB injections operated as intended. In particular the, concentrations of PCE and TCE are depleted in the biowall area, and concentration at MW-02 show a decrease in TCE from 25 μ g/L to ND and an increase in DCE from < 1 to 80 μ g/L.

As shown in **Table 4-2**, CVOCs were detected in 20 primary groundwater samples (not including the MS/MSD set). Of these 20 samples, nine had total CVOC concentrations between 10 and 50 μ g/L at depths ranging from 5 to 19 feet bgs. An additional five samples had total CVOC concentrations exceeding 50 μ g/L at depths ranging from 10 to 18 feet bgs. The highest concentration of PCE (35.6 μ g/L) was detected along downgradient Transect 2.5 (10-13 feet bgs), and the highest concentration of TCE (147 μ g/L) occurred at boring 1-10 (10-13 feet bgs), sidegradient and northwest of the vegetable oil injection points (**Figures 4-12** and **4-13**). The highest concentration of cis-1,2-DCE was detected at boring 1-2, near the former sump location, at a depth of 16.5-18 feet bgs. The sample collected from the manhole, MH-2, resulted in PCE and TCE detections, but neither above the site cleanup goal of 5 μ g/L.

Comparison of **Figures 4-12** and **4-13** which show PCE and TCE concentrations in groundwater during the 2014 SI, with **Figures 2-1** and **2-2** which show PCE and TCE concentrations during the 2006 PDI, indicates similar plume footprints but overall lower concentrations between B817 and Perimeter Road in 2014. **Figure 4-14** provides TCE groundwater concentrations along plume center line cross-section A-D (see **Figure 4-14** for cross-section location). TCE concentrations within the EAB treatment zone are significantly reduced compared to concentrations detected farther downgradient (southwest) of the treatment zone. **Figure 4-15** shows total volatile organic compounds (VOCs) in groundwater along Transect 1. Similar to **Figure 4-14**, this cross-section also shows the relatively low magnitude of CVOC concentrations in the treatment area, with concentrations increasing to the west.

CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

A building evaluation was conducted on July 12, 2014, and included a smoke test of the 1.5inch sump discharge line from the sump located in the center south portion of B817. No evidence was observed that indicated the sump drain goes to the lift station. Smoke was not observed coming from the ground or any other location outside B817. Results of the smoke test were inconclusive in that the subsurface route of the sump drain was not determined. A utility location/GPR was conducted on July 17, 2014 from the building to the fence on the other side of Perimeter Road; the utility locations are provided in **Figure 1-2**.

The enhanced anaerobic biodegradation injections were successful where applied, but the effects are localized. Soil CVOC concentrations within the EAB treatment zone have decreased relative to pre-treatment levels. The highest CVOC concentrations in soil occur downgradient of the treatment zone, as well as in an outlying area northwest of the EAB treatment area. CVOC concentrations (and mass) in soil are considerably higher in the finer-grained layers below the more permeable upper sand. Furthermore, these thinner, fine-grained layers exert significant control over contaminant fate and transport. This control is due to back diffusion of CVOCs from the fine grained sediments that sustain the downgradient portion of the plume despite the treatment of the upgradient source area near B817. The importance of these fine grained units was not previously recognized during installation and sampling of conventional monitoring wells and soil borings. Site data support this revised conceptual site model (CSM), with concentration profiles indicating that PCE/TCE mass is sorbed in fine-grained (silt/clay) material underlying the more transmissive upper sand, indicating that back-diffusion of PCE and TCE into the transmissive zone is contributing to plume persistence. This occurrence is a primary cause of long clean-up times at chlorinated solvent sites and is indicative of a late stage plume (Sale, et al., 2013).

PCE groundwater concentrations in the 2014 SI evaluation area are highest along the centerline of the plume from Transect 2.5 to Transect 4. The detected concentrations in Geoprobe® grab samples collected in this portion of the SI evaluation area exceed 20 ug/L, with a maximum concentration of 35.6 μ g/L. TCE concentrations detected in this same downgradient area during the 2014 SI have a similar magnitude; the highest TCE concentration (147 μ g/L) was detected northwest of the EAB treatment area at the western end of Transect 1. This maximum TCE detection is not consistent with the previous CSM and suggests an additional source of TCE west of B817. DCE detections occurred primarily in Transect 1 and are the result of reductive dechlorination of PCE and TCE in the EAB treatment area. Comparison of 2014 SI and 2006 PDI data indicates that, although the plume has persisted, CVOC concentrations in groundwater have generally decreased since 2006.

5.2 RECOMMENDATIONS

The Guidance for Evaluation of Federal Agency Demonstrations that Remedial Actions are Operating Properly and Successfully Under CERCLA Section 120(h)(3) (USEPA, 1996) provides the following definition of OPS:

The phrase "operating properly and successfully" involves two separate concepts. A remedial action is operating "properly" if it is operating as designed. That same system is operating "successfully" if its operation will achieve the cleanup levels or performance goals delineated in the decision document. Additionally, in order to be successful, that remedy must be protective of human health and the environment. For instance, a pump and treat system may be operating properly according to its design for pumping and extracting groundwater, but not operating successfully because one or more contaminant levels has not been reduced in the aquifer. The success of a particular remedial action will be evaluated based on whether it successfully addresses the particular contaminant(s) it was designed to remediate. Where more than one remedial action is required for a parcel, all such actions must operate properly and successfully, and USEPA must evaluate the suite of actions comprehensively prior to transfer to determine that all remedial actions have been taken. Thus, USEPA interprets the term "operating properly and successfully" to mean that the remedial action is functioning in such a manner that it is expected to adequately protect human health and the environment when completed.

Results from the investigation indicate that CVOC concentrations directly surrounding the vegetable oil injection well array are low, indicating the remedy (EAB) is operating properly, and is protective of human health and the environment. Although data indicate that back-diffusion of PCE and TCE into the transmissive zone is contributing to downgradient plume persistence, the enhanced natural attenuation remedy stipulated in the ROD is operating properly and successfully because it has clearly increased bioremediation rates. Continued use of MNA with institutional controls is a reasonable plan that is protective of receptors and will eventually achieve cleanup goals. Therefore, preparation and submission of an OPS report to USEPA is recommended.

It is also recommended that the CSM be updated with the additional site data obtained during the 2014 SI. The additional site data include higher CVOC concentrations sidegradient (northwest) of the treatment area, as well as a greater degree of geologic heterogeneity including lower permeability units ubiquitous throughout the site (at least between B817 and Perimeter Road). The updated CSM will be used to determine the value of additional active remediation.

Finally, an additional investigation is recommended to further delineate the northwest portion of the contaminated area. The additional investigation is expected to include further direct push sampling of soil and groundwater and installation of at least one additional monitoring well.

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FIGURES



FIGURE 1-1 LOCATION OF ROME, NEW YORK

LOCATION OF THE FORMER GRIFFISS AIR FORCE BASE (NOW THE GRIFFISS BUSINESS AND TECHNOLOGY PARK)



Maps Copied From <u>www.mapquest.com</u>













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PARSONS



Legend:							
Vegetable Oi	I Injection Area						
Value adjacent to the bo CVOCs (µg/kg), respec	oring are PCE, TCE, and total tively.						
Contours represent app concentations: 100, 500	roximate total CVOC), 1000 μg/kg.						
Vertical Exageration =	x 5.8						
Reference Map	1 04400						
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PRE	PARED BY:						
PAF	PARSONS						
Drawn by: JWS	Date: 11/5/14						
Project Manager: JHL	Date: 11/5/14						
File name: Section A-A_	_V3.srf						







	Notes:							
	values adjacent to borings are PCE, TCE and TVOC (µg/Kg), respectively							
	Contours represent 1000 and 2000 µg/kg. Vertical exaggeration = x 4.2							
	Approximate Treatment Area (dashed when inferred)							
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	FORMER GRIFFISS AIR FORCE BASE ROME, NEW YORK							
	PREPARED BY:							
	PARSONS							
	Drawn by: JWS Date: 11/5/14							
	Project Manager: JHL Date: 11/5/14							
	File name: Section C-C.srf and Rckwks Model 5							

















Notes:										
Values adjacent to borings are PCE, TCE and total CVOCs (μ g/L), respectively. At BH-1-2 and BH-1-5 DCE was detected therefore total CVOCs is greater than the sum of PCE and TCE. These were amongst the few locations where DCE was detected at appreciable concentrations.										
Contours are TCE (µg/L)										
Vertical Exaggeration = x 3.0										
Approximate Treatment Area										
Title:										
CROSS SECTION C-C'										
ALONG APPROXIMATE PLUME CENTERLINE WITH GROUNDWATER SAMPLE RESULTS										
Building 817/WSA 2014 SI Report										
Former Griffiss Air Force Base										
Rome, New York										
PREPARED BY:										
PARSONS										
Drawn by: JWS Date: 12/30/14										
Project Manager: JHL Date: 12/30/14										
File name: Section C-C_GW_TCE.srf										

TABLES

Table 4-1Summary of Positive Results for Soil Investigation

	Sample Name	1-10-15	2-1-14	2-2-14	2-2-17	2-3-17	2-3-18	2-4-17	2-4-18	2-5-16
	Lab Sample ID	SEI-127	SEI-25	SEI-22	SEI-21	SEI-19	SEI-18	SEI-16	SEI-15	SEI-14
Analyte	Date	8/15/2014	8/12/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014
Volatile (8260C)	Depth (ft)	15	14	14	17	17	18	17	18	16
PCE		81.6 U	79.8 U	93.7 U	75 U	77.1 U	90.1 U	58.0 J	79.5 U	53.1 J
TCE]	2420	71.1 J	40.7 J	41.3 J	107	264	134	229	64.9 J
cis-1,2-DCE]	81.6 U	79.8 U	93.7 U	75 U	77.1 U	90.1 U	0.0 U	79.5 U	25.5 J
trans-1,2-DCE]	81.6 U	79.8 U	93.7 U	75 U	77.1 U	90.1 U	0.0 U	79.5 U	83.7 U
VC]	81.6 U	79.8 U	93.7 U	75 U	77.1 U	90.1 U	0.0 U	79.5 U	83.7 U

	Sample Name	2-5-18	2-5-20	2-6-17	2-7-17	2-7-19	2-8-10	2-8-20	2.5-1-10	2.5-1-15
	Lab Sample ID	SEI-12	SEI-11	SEI-13	SEI-60	SEI-61	SEI-132	SEI-134	SEI-97	SEI-98
Analyte	Date	8/11/2014	8/11/2014	8/11/2014	8/13/2014	8/13/2014	8/15/2014	8/15/2014	8/14/2014	8/14/2014
Volatile (8260C)	Depth (ft)	18	20	17	17	19	10	20	10	15
PCE		ND	206	41.9	173	178	219	101 U	61.4 J	85.6 U
TCE]	75.5	497	24.7	313	308	93.9 J	1180	25.6 J	232
cis-1,2-DCE]	ND	547	72.8 U	83.2 U	63.6 J	125 U	101 U	85.3 U	25.2 J
trans-1,2-DCE]	ND	92.1 U	72.8 U	83.2 U	92.9 U	125 U	101 U	85.3 U	85.6 U
VC		ND	92.1 U	72.8 U	83.2 U	92.9 U	125 U	101 U	85.3 U	85.6 U

PCE: tetrachloroethene

TCE: trichloroethene

DCE: dichloroethene

VC: vinyl chloride

U: Non Detect

J: Estimated

All results in µg/kg

Table 4-1Summary of Positive Results for Soil Investigation

	Sample Name	2.5-2-18	2.5-2-20	2.5-3-15	2.5-3-19	2.5-5-15	2.5-5-18	3-1-15	3-1-18
	Lab Sample ID	SEI-94	SEI-95	SEI-92	SEI-93	SEI-86	SEI-87	SEI-26	SEI-27
Analyte	Date	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/12/2014	8/12/2014
Volatile (8260C)	Depth (ft)	18	20	15	19	15	18	15	18
PCE		84.8	68.5 U	212	61.2 U	73.1 U	49.1 U	39.6 J	76.1 U
TCE]	50.5 J	822	79.5	769	6300	33.4 J	29.8 J	163
cis-1,2-DCE]	78.9 U	68.5 U	77.9 U	61.2 U	73.1 U	49.1 U	75.4 U	76.1 U
trans-1,2-DCE]	78.9 U	68.5 U	77.9 U	61.2 U	73.1 U	49.1 U	75.4 U	76.1 U
VC		78.9 U	68.5 U	77.9 U	61.2 U	73.1 U	49.1 U	75.4 U	76.1 U

	Sample Name	3-2-16	3-2-19	3-3-16	3-4-16	3-4-19	3-5-15	3-5-16	3-6-14
	Lab Sample ID	SEI-28	SEI-29	SEI-30	SEI-32	SEI-33	SEI-36	SEI-37	SEI-34
Analyte	Date	8/12/2014	8/12/2014	8/12/2014	8/12/2014	8/12/2014	8/12/2014	8/12/2014	8/12/2014
Volatile (8260C)	Depth (ft)	16	19	16	16	19	15	16	14
PCE		71.2 J	72.6 U	79 U	136	151 U	104	96.3	179
TCE		64.7 J	499	22.5 J	128	1500	116	218	375
cis-1,2-DCE		72.3 U	72.6 U	79 U	64.1 U	151 U	75.1 U	66.9 U	70.6 U
trans-1,2-DCE]	72.3 U	72.6 U	79 U	64.1 U	151 U	75.1 U	66.9 U	70.6 U
VC		72.3 U	72.6 U	79 U	64.1 U	151 U	75.1 U	66.9 U	70.6 U

PCE: tetrachloroethene

TCE: trichloroethene

DCE: dichloroethene

VC: vinyl chloride

U: Non Detect

J: Estimated

All results in µg/kg

Table 4-1							
Summary of Positive Results for Soil Investigation							

	Sample Name	3-6-18	3-7-11	3-7-14	3-7-19	4-1-18	4-2-16	4-2-18
	Lab Sample ID	SEI-35	SEI-62	SEI-63	SEI-64	SEI-52	SEI-49	SEI-50
Analyte	Date	8/12/2014	8/13/2014	8/13/2014	8/13/2014	8/12/2014	8/12/2014	8/12/2014
Volatile (8260C)	Depth (ft)	18	11	14	19	18	16	18
PCE		ND	151	720	69.2 U	158	79.9 U	76.3 U
TCE]	1710	38.0 J	933	326	554	22.8 J	536
cis-1,2-DCE]	78.1 U	98.8 U	70.1 U	69.2 U	77.9 U	79.9 U	76.3 U
trans-1,2-DCE]	78.1 U	98.8 U	70.1 U	69.2 U	77.9 U	79.9 U	76.3 U
VC		78.1 U	98.8 U	70.1 U	69.2 U	77.9 U	79.9 U	76.3 U

	Sample Name	4-3-15	4-3-18	4-4-15	4-4-18	4-5-16	4-6-14	4-6-19
	Lab Sample ID	SEI-47	SEI-48	SEI-45	SEI-46	SEI-43	SEI-39	SEI-40
Analyte	Date	8/12/2014	8/12/2014	8/12/2014	8/12/2014	8/12/2014	8/12/2014	8/12/2014
Volatile (8260C)	Depth (ft)	15	18	15	18	16	14	19
PCE		52.4	318	81.1	70.5 J	129	323	67.5 U
TCE]	47.2	392	42.9 J	3430	110	257	18.9 J
cis-1,2-DCE]	64.7 U	76.1 U	70.9 U	74.2 U	71.8 U	76.6 U	67.5 U
trans-1,2-DCE]	64.7 U	76.1 U	70.9 U	74.2 U	71.8 U	76.6 U	67.5 U
VC		64.7 U	76.1 U	70.9 U	74.2 U	71.8 U	76.6 U	67.5 U

PCE: tetrachloroethene

TCE: trichloroethene

DCE: dichloroethene

VC: vinyl chloride

U: Non Detect

J: Estimated

All results in µg/kg

Table 4-1							
Summary of Positive Results for Soil Investigation							

	Sample Name	5-0-10	5-0-13	5-0-20	5-2-14	5-1-14	5-2-14	5-2-19
	Lab Sample ID	SEI-101	SEI-102	SEI-103	SEI-55	SEI-53	SEI-55	SEI-56
Analyte	Date	8/14/2014	8/14/2014	8/14/2014	8/12/2014	8/12/2014	8/12/2014	8/12/2014
Volatile (8260C)	Depth (ft)	10	13	20	14	14	14	19
PCE		267	82.9 J	235	66.8 U	101	437	42.8 J
TCE]	98.0	62.9 J	1790	3120	6020	66.8 U	25.2 J
cis-1,2-DCE]	84.5 U	86.8 U	79.4 U	66.8 U	69 U	66.8 U	80.1 U
trans-1,2-DCE]	84.5 U	86.8 U	79.4 U	66.8 U	69 U	66.8 U	80.1 U
VC		84.5 U	86.8 U	79.4 U	66.8 U	69 U	66.8 U	80.1 U

	Sample Name	5-3-14	5-3-18	5-3-19	5-4-14	5-4-20	5-5-18
	Sample ID	SEI-57	SEI-58	SEI-59	SEI-76	SEI-78	SEI-81
Analyte	Date	8/12/2014	8/12/2014	8/12/2014	8/13/2014	8/13/2014	8/13/2014
Volatile (8260C)	Depth (ft)	14	18	19	14	20	18
PCE		99.6	81.9	104	75.1 J	237	58.1
TCE		8470	29.1	53.2 J	29.8 J	583	602
cis-1,2-DCE		87 U	77.6 U	89.5 U	88.9 U	78.9 U	75.9 U
trans-1,2-DCE		87 U	77.6 U	89.5 U	88.9 U	78.9 U	75.9 U
VC		87 U	77.6 U	89.5 U	88.9 U	78.9 U	75.9 U
				-			

PCE: tetrachloroethene

TCE: trichloroethene

DCE: dichloroethene

VC: vinyl chloride

U: Non Detect

J: Estimated

All results in µg/kg

 Table 4-2

 Summary of Positive Results for Groundwater Investigation

		Sample Name	1-2(10-13)	1-2(13.5-16.5)	1-2(16.5-18)	1-5(10-13)	1-5(13.5-16.5)	1-7 (10-13)	1-7 (13.5-16.5)
		Lab Sample ID	SEI-70	SEI-71	SEI-72	SEI-73	SEI-74	SEI-104	SEI-105
Analyte	Site Cleanup	Date	8/13/2014	8/13/2014	8/13/2014	8/13/2014	8/13/2014	8/14/2014	8/14/2014
Volatile (8260C)	Goal ¹	Depth (ft)	10-13	13.5-16.5	16.5-18	10-13	13.5-16.5	10-13	13.5-16.5
PCE	5		2 U	2 U	2 U	1.26 J	2 U	7.37	3.80
TCE	5		0.990 J	2 U	7.95	9.03	5.07	10.6	18.1
cis-1,2-DCE	5		2 U	7.80	73.6	1.43 J	13.4	2 U	4.90
trans-1,2-DCE	5		2 U	2 U	2 U	2 U	2 U	2 U	2 U
VC	2		2 U	2 U	2 U	2 U	2 U	2 U	2 U

		Sample Name	1-10 (5-8)	1-10 (8-10)	1-10 (10-13)	2.5-5 (10-13)	2.5-5 (13.5-16.5)	2.5-5 (17-20)	4-4 (10-13)
		Sample ID	SEI-128	SEI-130	SEI-129	SEI-117	SEI-118	SEI-119	SEI-120
Analyte	Site Cleanup	Date	8/15/2014	8/15/2014	8/15/2014	8/15/2014	8/15/2014	8/15/2014	8/15/2014
Volatile (8260C)	Goal ¹	Depth (ft)	5-8	8-10	10-13	10-13	13.5-16.5	17-20	10-13
PCE	5		2 U	2 U	4.11	35.6	2 U	2 U	30.9
TCE	5		13.1	9.54	147	38.1	7.03	2.57	37.5
cis-1,2-DCE	5		2 U	2 U	2 U	0.680	2 U	2 U	2 U
trans-1,2-DCE	5		2 U	2 U	2 U	2 U	2 U	2 U	2 U
VC	2		2 U	2 U	2 U	2 U	2 U	2 U	2 U

1 - New York State Department of Environmental Conservation Class GA Groundwater Quality Standards

U: Not Detected

J: Estimated

PCE: tetrachloroethene

TCE: trichloroethene

DCE: dichloroethene

VC: vinyl chloride

µg/L - microgram(s) per liter

Sample Numbering System: Transect Number - Boring Number(Depth in feet)

MH-2: Manhole sample

Table 4-2 Summary of Positive Results for Groundwater Investigation

		Sample Name	4-4 (13.5-16.5)	4-4 (17-20)	5-3 (10-13)
		Lab Sample ID	SEI-121	SEI-122	SEI-106
Analyte	Site Cleanup	Date	8/15/2014	8/15/2014	8/14/2014
Volatile (8260C)	Goal ¹	Depth (ft)	13.5-16.5	17-20	10-13
PCE	5		23.7	2 U	5.71
TCE	5		47.2	6.91	4.34
cis-1,2-DCE	5		2 U	2 U	2 U
trans-1,2-DCE	5		2 U	2 U	2 U
VC	2		2 U	2 U	2 U

		Sample Name	5-3 (13.5-16.5)	5-3 (17-19)	MH-2
		Sample ID	SEI-107	SEI-108	SEI-109
Analyte	Site Cleanup	Date	8/14/2014	8/14/2014	8/14/2014
Volatile (8260C)	Goal ¹	Depth (ft)	13.5-16.5	17-19	0.01
PCE	5		15.4	17.5	4.60
TCE	5		26.6	28.6	3.74
cis-1,2-DCE	5		2 U	2 U	2 U
trans-1,2-DCE	5		2 U	2 U	2 U
VC	2		2 U	2 U	2 U

1 - New York State Department of Environmental Conservation Class GA Groundwater Quality Standards

U: Not Detected

J: Estimated

PCE: tetrachloroethene

TCE: trichloroethene

DCE: dichloroethene

VC: vinyl chloride

µg/L - microgram(s) per liter

Sample Numbering System: Transect Number - Boring Number(Depth in feet)

MH-2: Manhole sample

APPENDIX A BORING LOGS

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 0 Boring 7
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	East of B817
Rig Type:	z Type: Geoprobe					PROJECT Location: Rome, NY	
8 71	CROUN	DWATED	DCEDVA	TIONS	-		I continu
A	GROUN	DWATER O	BSERVA	TIONS	A 1.1.		Diag
Magaurad	Watar L a	JIW.		NA	ft blo	Dete/Time Starts August 14, 2014/1600	<u>r</u> lali
Total Dan	th of Bori	vei.		10.5	ft ble	Date/Time Start: August 14, 2014/1600	-
Additional		ig. ite:		19.5	It bis	Date/Time Finish. August 14, 2014/1050	-
Additional	Commen						
							COMMENTS
Sample	CIDE	n	DID	USCS	Depth	ΓΙΕΙ D ΙDΕΝ/ΤΙΓΙC ΑΤΙΩΝ ΔΕ ΜΑΤΕDΙ ΑΙ	
Туре	SPT	Recovery	PID	Symbol	(ft bls)	0.4" Moist stiff dark brown tonsoil roots 4.8" Dry stiff dark brown SILT	
MC		24"	0	SM	0	and fine Sand, some roots, 8-24"- Dry, dense, medium brown, fine to medium	
MC		24	0	3101	1	SAND.	
					1		
				1	2		
				1	3		
				1	4		
					5	0-15"-Moist, dense, medium brown, fine to medium SAND. 15-30"-Wet, dense,	
MC		30"	0	SM		dark brown, fine to medium SAND, some coarse sand	
					6		
					7		
					8		
					0		
					9		
					10	0.20" Wat dance medium brown fine to medium SAND some coerce and 20	-
MC		36"	0	SW	10	36"-Wet, dense, medium brown, fine to medium SAND, some coarse sand. 50-	
MC		30	0	3 W	11		
					12		
					13		
					14		
							1
					15	0-2"-Wet, stiff, gray, SILT and fine to medium Sand, some weathered shale. 2-54'	1
MC		54"	0	GM	1.5	Wet, loose, gray, weathered shale, little fine to coarse sand. Refusal at 19.5 ft	
					16		
					17		
					17		
					10		
					10		
				-	19		
				1	20	End of Boring	1
						č	
ľ				1			
l .	SAMPLI	NG METHO	<u>)D</u>			COMMENTS:	
	MC=Macroo	core					
I .					=		

						PARSONS	BORING/ Page 1 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 1 Boring 1
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			PROJECT Location: Rome, NY		
	GROUN	UNDWATER OBSERVATIONS					Location
Apparent]	Borehole I	DTW:	DDLitti	10	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 11, 2014	
Total Dept	th of Borin	ng:		23	ft bls	Date/Time Finish: August 11, 2014	
Additional	Commen	its:					
							COMMENTS
Sample		_		USCS	Depth		
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
MC		30"	0	SM	0	0-50 -Dry, 100se, brown, medium to the SAIND, trace grass/100ts, trace sitt.	
MC		50	0	3101	1		
				1	2		
				1	3		
					4		
					-		
					5	0-8"- Moist, loose, brown, medium to fine SAND, trave gravel. 8-9"-Moist, stiff,	Sample taken at 10"
MC		30"	0	SM		brown, SILT, some fine sand. 9-30"-Moist, loose, brown, medium to fine SAND,	Sample ID: 1-1-10
					6	uace snt.	
					7		
					/		
					8		
					0		
					9	•	
					-		
					10	0-22"-Wet, loose, brown, medium to fine SAND. 22-24"-Wet, loose, fine to	
MC		24"	0	SM		coarse SAND, trace fine gravel.	
					11		
					10		
					12		
					13	•	
					1.5		
				1	14		
					15	0-5"-Wet, brown, loose, medium to fine SAND, trace silt. 5-14"- Wet, stiff,]
MC		48"	0	SM		brown-dark brown, SILT and medium to fine Sand, trace fine gravel, trace clay.	
					16	14-48"-Wet, loose, brown, medium to fine SAND.	
					17		
					17		
					19		
					10		
				1	19		
				1	20		1
	SAMPLI	NG METHO				COMMENTS:	
	MC=Macroo	core					
•					=		
L							

						PARSONS	BORING/ Page 2 of 2
Contracto	or: Stone	Environmen	al			DRILLING RECORD	WELL NO. Transect 1 Boring 1
Driller:	Chris	Aldrich			_		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1		Location
Apparent	Borehole I	DTW:		10	ft bls		Plan
Measured Total Dan	easured Water Level: NA ft bls				ft bls	Date/Time Start: August 11, 2014	
Additional	l Commen	ig. ts:		23	It DIS	Date/Time Filish: August 11, 2014	-
. Iduitiona							
Sample	SDT	Deservowy	PID	USCS	Depth	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
Туре	SPI	Recovery	PID	Symbol	20	0-29"-Wet, loose, gray, weathered shale, trace fine gravel. Refusal at 23ft.	
MC		30"	0	GM			
					21		
					22		
					23		
					24		
					25	End of Boring	-
					26		
					26		
					20		
					28		
					29		
					30		_
					31		
					32		
					22		
					33		
					34		
					35		
					36		
					37		
					38		
					39		
					40		_
					40		
	SAMPI I	NG METHO	D	<u> </u>	<u> </u>	COMMENTS:	
	MC=Macroo	core					
					-		
L							

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 1 Boring 2
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			-	PROJECT Location: Rome, NY	
8 71	CROUN	DWATED	DCEDVA	TIONE	-		T and in the
Apparant	GROUN	DWATER O	BSEKVA	10	ft ble		Plan
Magaurad	Watar L a	JIW.		10 NA	ft blo	Dete/Time Starts August 11, 2014	
Total Dan	easured Water Level: NA ft bls					Date/Time Start: August 11, 2014	-
Additional		ig. ite:		20	It bis	Date/Time Finish. August 11, 2014	1
Additiona	Commen						
							COMMENTS
Sample				USCS	Depth		
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
MC		20"	0	SM	0	SAND trace silt trace fine gravel	
MC		- 50	0	SM	1	SALVD, trace she, trace the graver.	
					1		
			l	<u> </u>	2		
					-		
				1	3		
					4		
					5	0-3"-Dry, loose, light brown, fine SAND, trace silt. 3-36"-Moist, loose, brown,	Sample taken at 10"
MC		36"	0	SM		medium to fine SAND.	Sample ID: 1-1-10
					6		
					7		
					8		
					0		
					9		
					10	0.5" Wat loose brown medium to fine SAND 5.12" Wat loose light grou	-
MC		12"	0	SM	10	medium to fine SADN and weathered rock trace weathered shale	
MC		12	0	311	11		
					12		
					13		
					14		
					15	0-8"-Wet, stiff, brown, SILT, some fine sand, trace fine gravel. 8-16"-Wet, loose,	Sample taken at 17'
MC		48"	0	SM	1.5	medium brown, medium to fine SAND, some weathered shale. 16-48"-Wet, loose,	Sample ID: 1-2-17
					16	gray, weamered snale, nute medium to nne sand. Kerusal at 2011.	
				<u> </u>	17		
					1/		
					18		
					10		
				1	19		
				1	20		1
				1			
	SAMPLI	NG METHO	DD			COMMENTS:	·
	MC=Macroo	core				Groundwater samples taken at 10-13', 13-5-16.5', and 17-19-5'	
					-		
Ľ'							

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 1 Boring 3
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			•	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			•	PROJECT Location: Rome, NY	
8 71	CROUN	DWATED	DCEDVA	TIONS			T anoticul
Apparant	GROUN	DWATER U	BSEKVA	10	ft bla		Dion
Magaurad	Watar L a	JIW.		10 NA	ft blo	Deta/Time Starts August 11, 2014	
Total Dan	water Lev	vel.		19 19	ft blo	Date/Time Start: August 11, 2014	-
Additional	Common	ig.		18	It bis	Date/Time Finish: August 11, 2014	-
Auditiona	Commen	15.					
							COMMENTS
Sample				USCS	Depth		
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
				<i></i>	0	0-6"-Moist, brown, topsoil, grass. 6-18"-Dry, loose, light brown, medium to fine	
MC		36"	0	SM	1	SAIND, trace coobles. 18-56 -Dry, dense, brown, line SAIND, trace medium sand.	
					1		
					2		
					2		
					3		
					3		
					4		
					-		
					5	0-12"-Dry dense brown fine Sand trace medium sand 12-30"-Moist dense	-
MC		30"	0	SM	5	medium brown, medium to fine SAND.	
me		50	0	5141	6		
					0		
					7		
					8		
					9		
					10	0-12"-Wet, dense, medium brown, medium to fine SAND, trace fine gravel. 12	1
MC		36"	0	SM		36"-Wet, dense, light gray, fine to coarse SAND and fine to coarse Gravel, trace	
					11	weathered rock.	
					12		
					13		
					1.4		
					14		
				+	15	0.2" Wat loose light group fine to come CAND and fire to some Canto	Samala talam at 16'
MC		26"	0	CM	15	u-2 - wet, 100se, light gray, line to coarse SAND and line to coarse Gravel, trace weathered rock 2.15". Wet stiff brown SILT trace fine and 15.32" Wet	Sample Toy 1 2 16
MC		30	U	SM	16	dense, medium brown, medium to fine SAND, some weathered shale 32-36"-	Sample ID: 1-3-10
					10	Wet, loose, gray, weathered shale, some medium to fine sand. Refusal at 18ft.	
					17		
					1/		
					18		
					10		
					19		
				1	20		1
				1			
l '	SAMPLI	NG METHO)D			COMMENTS:	<u>.</u>
	MC=Macroo	ore				Groundwater samples taken at 10-13', 13-5-16.5', and 17-19-5'	
					_		

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 1 Boring 4
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			_	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent l	Borehole I	DTW:		10	ft bls		Plan
Measured	asured Water Level: NA ft bls					Date/Time Start: August 11, 2014	–
Total Dept	th of Borii	ng:		17	ft bls	Date/Time Finish: August 11, 2014]
Additional	Commen	its:					1
				1			COMMENTS
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-6"-Moist, dark brown, topsoil, roots. 6-30"-Dry, dense, medium brown, medium	
MC		48"	0	SM		to fine SAND. 30-48"-Dry, loose, light brown, fine SAND, trace medium sand,	
					1	uace snt.	
				-	2		
					2		
			1		3		
					5		
					4		
					5	0-12"-Dry, loose, light brown, fine SAND, some medium sand. 12-24"-Moist,	1
MC		24"	0	SM		loose, brown, medium to fine SAND, some coarse sand.	
					6		
					_		
					7		
					0		
					8		
					9		
					10	0-8"-Wet, loose, medium brown, medium to fine SAND, some coarse sand. 8-28"-	- Sample taken at 15'
MC		30"	0	SM		Wet, brown-light gray, fine to coarse SAND, some fine to coarse gravel, trace	Sample ID: 1-4-15
					11	cobbles. 28-30"-Wet, stiff, brown, SILT, some medium to fine sand.	
					12		
				-	12		
					15		
				+	14		
				1	17		
				1	15	0-22"-Wet, stiff, brown, SILT, some fine sand, trace fine gravel. 22-24"-Wet,	Sample taken at 17'
MC		24"	0	SM		loose, brown, fine SAND, trace weathered rock. Refusal at 17ft.	Sample ID: 1-4-17
					16		
					17		
					10		
					18		
				<u> </u>	10		
					17		
				1	20		1
l .	SAMPLI	NG METHO	<u>)D</u>			COMMENTS:	
	MC=Macroo	core					
					=		

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 1 Boring 5
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe				PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1		Location
Apparent l	parent Borehole DTW: 10 ft bls						Plan
Measured	asured Water Level: NA ft bls				ft bls	Date/Time Start: August 11, 2014	-
Total Dep	th of Bori	ng:		17	ft bls	Date/Time Finish: August 11, 2014	-
Additional	Commen	IS:					
6				USCS	D. d		COMMENTS
Sample	SPT	Recovery	PID	USCS	Deptn (ft bls)	FIELD IDENTIFICATION OF MATERIAL	
Type	511	Recovery	110	Symbol	0	0-6"-Moist, medium brown, topsoil, roots. 6-36"-Dry, loose, brown, medium to	
MC		42"	0	SM		fine SAND. 36-42"-Dry, dense, light brown, fine SAND, some medium sand.	
					1		
		ļ			_		
					2		
					2		
					5		
					4		
					5	0-12"-Dry, loose, light brown, fine SAND, some medium sand. 12-24"-Moist,	1
MC		24"	0	SM		dense, brown, medium to fine SAND.	
					6		
		-			7		
					/		
					8		
					Ŭ		
					9		
					10	0-8"-Wet, loose, dark brown-gray, fine to coarse SAND, trace fine gravel. 8-30"-	Sample taken at 15'
MC		36"	0.1	SM	11	Wet, dense, gray-brown, fine to coarse SAND, some fine to coarse gravel. 30-35"- Wet, dense, brown, fien to coarse GRAVEL, some fine to coarse sand 35-36"-	Sample ID: 1-5-15
					11	Wet, stiff, brown, SILT, some fine sand.	
					12		
					13		
					14		
					15	0.4" Wat stiff brown SILT some fine and 6 10" Wet down have been	Seconda talam at 17
MC		24"	0	SM	13	SAND, some medium sand. 12-23"-Wet, dense, dark grav, medium to fine SAND.	Sample ID: 1-5-17
me			0	5111	16	trace weathered shale. 23-24"-Wet, loose, gray, weathered shale.	Sample ID. 1 5 17
					-		
					17		
					18		
					10		
					19		
					20		1
					-		
	SAMPLI	NG METHO	<u>)D</u>			COMMENTS:	
	MC=Macroo	core					
-					-		
L							

						PARSONS	BORING/ Page 1 of 2
Contracto	r: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 1 Boring 6
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	robe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1		Location
Apparent l	Borehole I	DTW:		10	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 11, 2014	-
Total Dep	th of Boru	ng:		22	ft bls	Date/Time Finish: August 11, 2014	-
Additional	Commen	IS:					
					-		
Sample				USCS	Donth		COMMENTS
Type	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
1,100	011	Interest eng	110	5,11001	0	0-12"-Moist, brown, topsoil, roots. 12-36"-Moist, loose, brown, medium to fine	
MC		36"	0	SM		SAND.	
					1		
					2		
┠───┤					2		
					5		
					4		
					l '		
					5	0-6"-Moist, dense, light brown, medium to fine SAND. 6-24"-Moist, loose,	
MC		24"	0	SM	-	brown, medium SAND, some fine sand.	
					6		
					7		
					8		
					0		
					9		
					10	0-18"-Wet, loose, brown, medium to fine SAND, 18-24"-Wet, loose, gray-brown.	Sample taken at 15'
MC		24"	0	SM		fine to coarse SAND, trace cobbles.	Sample ID: 1-5-15
					11		Ĩ
					12		
					10		
					13		
					14		
					1.4		
					15	0-4"-Wet, loose, brown-gray, fine to coarse SAND and fine to coarse Gravel. 4-7"-	Sample taken at 17'
MC		30"	0	SM		Wet, stiff, brown, SILT and fine Sand. 7-30"-Wet, dense, dark brown, fine to	Sample ID: 1-5-17
					16	medium SAND.	
					L		
					17		
					10		
					18		
					19		
					20		1
	SAMPLI	NG METHO	DD			COMMENTS:	
	MC=Macroo	core					
•					=		
L							

						PARSONS	BORING/ Page 2 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 1 Boring 6
Driller:	Chris	Aldrich					Location Description:
Oversight	sight: Allison Jordan					PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	OTW:		10	ft bls		<u>P</u> lan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 11, 2014	-
Total Dep	th of Bori	ng:		22	ft bls	Date/Time Finish: August 11, 2014	-
Additiona	Commen	ts:					
G 1				USCS	D. d		COMMENTS
Sample	SPT	Recovery	PID	USCS	Deptn (ft bls)	FIELD IDENTIFICATION OF MATERIAL	
Type	511	Recovery	110	Symbol	20	0-18"-Wet, loose, dark gray, weathered shale, some fine to coarse sand, trace fine	
MC		18"	0	GM		to coarse gravel. Refusal at 22ft.	
					21		
						•	
					22		
					23		
					23		
					24		
					25	End of Boring	
					26		
					26		
					26		
					20		
					28		
					29		
					20		-
					50		
					31		
					-		
					32		
					- 22		
					33		
				+	34		
					54		
					35		1
					36		
				-	37		
					51		
					38		
					39		
					40		
•	SAMDI T	NC METHO	מנ	L	I	COMMENTS	<u> </u>
	MC=Macro	ore	<u></u>			COMMETIO.	
					-		

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 1 Boring 7
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan				PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe				PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS		•	Location
Apparent	Borehole I	DTW:		10	ft bls		Plan
Measured	Water Le	vel:		NA	ft bls	Date/Time Start: August 13, 2014	-
Total Dep	th of Bori	ıg:		19.5	ft bls	Date/Time Finish: August 13, 2014	-
Additiona	Commen	ts:					
-							
		1		1			CONDIENTES
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-6"-Moist, dark brown, topsoil, roots. 6-22"-Moist, dense, dark brown, fine to	
MC		30"	0	SM		coarse SAND, little fine gravel in 6-12"lens. 22-27"-Moist, dense, brown, fine	
					1	SAND, some sitt. 27-50 - Moist, dense, brown, nine to medium SAND.	
					2		
					2		
			1		3		
					4		
					5	0-15"-Moist, dense, brown, fine SAND, some medium sand. 15-30"-Moist, dense,	
MC		30"	0	SM		medium brown, fine to medium SAND.	
					6		
					7		
					/		
					8	•	
					0		
					9		
					-		
					10	0-22"-Wet, dense, medium brown, fine to coarse SAND, some fine to coarse	Sample taken at 15'
MC		30"	0	SM		gravel. 22-30"-Wet, stiff, brown, SILT, some fine sand, trace fine gravel.	Sample ID: 1-7-15
					11		
					10		
					12		
					13		
					15		
					14	*	
					15	0-6"-Wet, stiff, brown, SILT, some fine sand, some medium to fine gravel. 6-18"-	Sample taken at 17'
MC		36"	0	SM		Wet, loose, medium brown, fine to coarse SAND and fine to coarse Gravel, trace	Sample ID: 1-7-17
					16	weathered shale. 18-36"-Wet, loose, gray, weathered and fine to coarse sand. Refusal at 19 5ft	
					17	iterusur ut 19.51t.	
					1/		
				<u> </u>	18		
					10		
					19		
				1	20		1
	SAMPLI	NG METHO	DD			COMMENTS:	
	MC=Macroo	core					

						PARSONS	BORING/ Page 1 of 1
Contracto	r: Stone	Environmen	al			DRILLING RECORD	WELL NO. Transect 1 Boring 8
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	robe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent l	Borehole I	DTW:		7	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 14, 2014	-
Total Dep	th of Born	ng:		16	ft bls	Date/Time Finish: August 14, 2014	-
Additional	Commen	IS:					
					-		
Sample				USCS	Donth		COMMENTS
Type	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
1,100	011	Interest eng	110	5,11001	0	0-8"-Dry, loose, gray, asphalt and related stone fill. 8-16"-Dry, loose, brown, fine	
MC		36"	0	SM		to coarse SAND and fine to coarse Gravel. 16-36"-Moist, dense, medium brown,	
					1	medium to fine SAND.	
					2		
					2		
					5		
					4	•	
					5	0-24"-Moist, dense, medium brown, medium to fine SAND. 24-30"- Wet, loose,	1
MC		30"	0	SM		brown, fine to coarse SAND and fine to coarse Gravel.	
					6		
		-			7		
					/		
					8	•	
					0		
					9		
					10	0-18"-Wet, dense, medium brown, fine to coarse SAND, little fine gravel. 18-36"-	Sample taken at 14'
MC		36"	0	SM-ML		Wet, stiff, brown, SILT and fine Sand.	Sample ID: 1-8-14
					11		
		-			12		
					12		
					13	•	
					_		
					14		
					4-		4
		1.01	c		15	0-14"-Wet, dense, medium brown, fine to coarse SAND and Silt. 14-18"-Wet,	Sample taken at 16'
MC		18"	0	SM	16	1005c, gray, weathered shale. Kerusai at 1011.	Sample ID: 1-8-16
					10		
					17		
					18		
					L		
					19		
┣───┤				-	20		4
					20		
· ·	SAMPLI	NG METHO	DD	•	•	COMMENTS:	
	MC=Macroo	core					
					-		

						PARSONS	BORING/ Page 1 of 1
Contracto	stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 1 Boring 9
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe				PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	-		Location
Apparent l	oparent Borehole DTW: 8 ft bls						Plan
Measured	Water Lev	vel:		10 10	ft bls	Date/Time Start: August 14, 2014	-
Additional		ig. is:		18	It bis	Date/Time Finish: August 14, 2014	-
ruuntional	Commen						
Sample Type	SPT	Recoverv	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
					0	0-4"-Asphalt, related fill. 4-12"-Dry, loose, brown, SILT and fine to coarse	
MC		42"	0	SM		Gravel. 12-42"-Dry, dense, medium brown, fine to medium SAND.	
					1		
					2		
					2		
					3		
					-		
					4		
					5	0-12"-Dry, dense, medium brown, medium to fine SAND. 12-24"-Moist, loose,	Sample taken at 10'
MC		24"	0	SM	6	brown, fine to coarse SAND and fine to coarse Gravel.	Sample ID: 1-9-10
					0		
					7		
					,		
					8		
					9		
					10		
MC		42"	0	MI SM	10	0-24"- Wet, stiff, brown, SIL1, some fine sand, little fine gravel. 24-36"- Wet, dense medium brown, fine to coarse SAND trace fine to medium gravel. 36-42"-	Sample taken at 12' and 14'
MC		42	0	ML-SM	11	Wet, loose, gray, weathered shale and fine to coarse Sand.	Sample IDS. 1-9-12 and 1-9
					12		
					13		
					14		
					14		
				1	15	0-30"-Wet, loose, gray, weathered shale. Refusal at 18ft.	1
MC		30"	0	GM			
					16		
					17		
					17		
					18		
					10		
					19		
					20		
				ļ			
-	CAMPT			L	I	COMPLEXITS.	
	SAMPLI	NG METHO	<u>u</u>			COMMENTS:	
	wic_iviacio	.010					

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 1 Boring 10
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geop	obe			-	PROJECT Location: Rome, NY	
8 71	CROUN	DWATED	DCEDVA	TIONS	-		I anotinu
A	GROUN	DWATER O	BSERVA	TIONS	G 1-1-		Diam
Magaurad	Watar L a	JIW.		J NA	ft blo	Deta/Time Starts August 15, 2014	<u>r</u> lali
Total Dan	water Lev	vel.		15 NA	ft blo	Date/Time Start: August 15, 2014	
Additional	Common	ig.		15	It bis	Date/Time Finish: August 15, 2014	-
Additiona	commen						
							COMMENTS
Sample				USCS	Depth		
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
140		2.47	0		0	0-6"-Asphalt, related fill. 6-12"-Wet, moist, loose, brown, fine to coarse SAND	
MC		24"	0	SM	1	SAND	
					1		
					2	•	
					2 ²		
					3		
					5		
					4		
					5	0-20"-Wet, loose, brown, fine to coarse SAND and fine to coarse Gravel, some	Sample taken at 5' and 10'
MC		24"	0	SM	2	silt. 20-24"-Wet, stiff, brown, SILT and fine to coarse Sand, some fine to coarse	Sample ID: 1-10-5 and 1-10
					6	gravel.	I I I I I I I I I I I I I I I I I I I
					-		
					7		
					8		
					9		
					10	0-30"-Wet, dense, brown, fine to coarse SAND and Silt, some fine to coarse	Sample taken at 15'
MC		36"	0	SM		gravel. 30-36"-Wet, dense, brown-gray, fine to coarse SAND, some weathered	Sample ID: 1-10-15
					11	shale. Refusal at 15ff.	
					10		
					12		
					12		
					15		
					14		
					14		
					15	End of Boring	1
					1.5		
					16		
				1	17	+	
				İ	18		
					19		
							1
					20		
I .							
	SAMPLI	NG METHO	DD			COMMENTS:	
	MC=Macroo	core					
					-		

						PARSONS	BORING/ Page 1 of 2
Contracto	r: Stone	Environment	al			DRILLING RECORD	WELL NO. Transect 2 Boring 1
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1		Location
Apparent l	Borehole I	DTW:		10	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 12, 2014	-
Total Dep	h of Boru	ıg:		23	ft bls	Date/Time Finish: August 12, 2014	-
Additional	Commen	ts:					
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
MC		42"	0	SM	0	U-3 -MOIST, brown, topsoil, roots. 3-36 -Dry, dense, light brown, medium to line	
MC		42	0	SIM	1	SAND, trace fine gravel.	
					2	+	
					3		
					4		
					5	0-12"- Moist dense light brown medium to fine SAND 12-24"- Moist dense	Sample taken at 10"
MC		24"	0	SM	5	medium brown, fine to coarse SAND.	Sample ID: 1-1-10
		2.	0		6		Sumple 10. 1 1 10
					7		
					_	•	
					8		
					0	•	
					9		
					10	0-12"- Wet, loose, dark brown, fine to coarse SAND, 12-36"-Wet, stiff, light	-
MC		48"	0	SM		brown, SILT and fine Sand, trace fine gravel. 36-48"-Wet, stiff, light brown,	
					11	SILT, some fine sand, little clay, trace fine gravel.	
					12		
					13	•	
					1.5		
				1	14	*	
					15	0-24"-Wet, stiff, light brown, SILT, some fine sand, little clay. 24-50"- Wet,	
MC		54"	0	SM-ML	16	dense, light brown, fine SAND and Silt, trace fine gravel. 50-54"-Wet, loose,	
					16	gray, meaning to fine SATAD and meaning to fine Oraver.	
					17		
					- 1		
					18	+	
					19		
					20		-
					20		
-	SAMPLI	NG METHO	DD	L	I	COMMENTS:	I
	MC=Macroo	ore					

						PARSONS	BORING/ Page 2 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2 Boring 1
Driller:	Chris	Aldrich					Location Description:
Oversight	sight: Allison Jordan				-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	DTW:		10	ft bls		Plan
Measured	Water Lev	/el:		NA	ft bls	Date/Time Start: August 12, 2014	_
Total Dep	th of Born	ng:		23	ft bls	Date/Time Finish: August 12, 2014	4
Additiona	Commen	ts:					
				1			CONDIENTS
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					20	0-6"- Wet, loose, gray, medium to fine SAND and weathered shale. 6-24"-Wet,	
MC		24"	0	GM	21	loose, gray, weathered shale. Kerusal at 25ft.	
					21		
					22		
					23		
					24		
					24		
					25	End of Boring	-
					26		
					26		
					26		
					28		
					20		
					29		
					30		
					31		
					51		
					32		
					33		
					34		
					35		1
					21		
					36		
					37		
					38		
					20		
					39		
					40		1
	SAMPLI	NG METHO	<u>)D</u>			COMMENTS:	
	MC=Macroo	ore					
					•		

						PARSONS	BORING/ Page 1 of 1
Contracto	stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2 Boring 2
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geop	robe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1		Location
Apparent l	Borehole I	DTW:		10	ft bls		Plan
Measured	Water Le	vel:		NA	ft bls	Date/Time Start: August 11, 2014	-
Total Dep	th of Born	ng:		20	ft bls	Date/Time Finish: August 11, 2014	-
Additional	Commen	IS:					
Sample	GDT	D	DID	USCS	Depth	ετεί ο πρενητείς ατίου σε ματερία ι	COMMENTS
Type	SPI	Kecovery	PID	Symbol	(It bis)	0-3"-Moist brown topsoil roots 3-40"-Dry dense light brown medium to fine	
MC		42"	0	SM	0	SAND, little fine gravel, trace cobbles. 40-42"- Dry, loose, light brown, medium	
					1	to fine SAND, trace fine gravel.	
					2		
					3		
					4		
					5	No Recovery.	
MC		36"	0	SM		-	
					6		
					7	-	
					8	•	
					9		
					10		
MC		36"	0	SM MI	10	U-12 - Wet, loose, dark brown, fine to coarse SAND, trace fine gravel. 12-18 Wet loose dark brown fine to coarse SAND and fine to coarse Gravel 18-22"-	Sample ID: 2.2.14
MC		50	0	SIVI-IVIL	11	Wet, stiff, brown, SILT and fine Sand, trace fine gravel. 22-36"- Wet, stiff,	Sample ID. 2-2-14
						brown, SILT, some fine sand, some clay, trace fine gravel.	
					12		
					13		
				<u> </u>	14		
					14		
				<u> </u>	15	0-24"- Wet, very stiff, brown, SILT, some fine sand, some clay, trace fine gravel.	Sample taken at 17'
MC		36"	0	ML	-	24-32"- Wet, stiff, brown, SILT and fine Sand. 32-36"- Wet, loose, gray,	Sample ID: 2-2-17
					16	weathered shale, some fine to coarse sand.	
				ļ			
					17		
			1	<u> </u>	18	+	
					10		
					19	+	
					20	End of Boring	
-	SAMDI T	NC METU	מו			COMMENTS	
	MC=Macro	TAG INTE I HU	<u></u>			COMMENTS:	
					-		
					-		

						PARSONS	BORING/ Page 1 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2 Boring 3
Driller:	Chris	Aldrich			_		Location Description:
Oversight	t: Alliso	n Jordan				PROJECT NAME: Griffiss B817	South of B817
Rig Type	Geop	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole l	DTW:		5	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 11, 2014	-
Total Dep	th of Bori	ng:		23	ft bls	Date/Time Finish: August 11, 2014	-
Additiona	I Commen	its:					
							COMMENTS
Sample	CDT	Deserver	DID	USCS	Depth	FIELD IDENTIFICATION OF MATERIAL	
Type	SPI	Recovery	PID	Symbol	(It bis)	0-8"-Moist brown tonsoil roots 8-36"- Dry dense brown medium to fine	
MC		48"	0	SM	Ŭ	SAND, some coarse sand. 36-48"- Dry, dense, light brown, medium to fine	
-					1	SAND.	
					2		
					-		
					5		
		<u> </u>		+	4		
					-		
					5	0-12"-Wet, loose, brown, medium to fine SAND, trace silt. 12-24"- Wet, dense,	1
MC		36"	0	SM		brown, medium to fine SAND, some silt. 24-36"- Wet, dense, dark brown, fine to	
					6	coarse SAND.	
						•	
					7		
					8	•	
					0		
					9	•	
					10	0-20"- Wet, loose, gray-brown, medium to fine SAND. 20-28"- Wet, loose, gray-	
MC		30"	0	SM	11	brown, medium to fine SAND, some coarfse sand, trace fine gravel. 28-30"- Wet,	
					11	toose, gray-orown, the to coarse SAIND and the Gravel.	
					12		
					12		
					13		
					14		
				<u> </u>	15	0.2" Wat dance medium brown medium to fire CAND to a fire 1.2.0"	Seconda talam at 16
MC		42"	0	SM	15	Wet, loose, medium brown, medium to fine SAND, trace fine gravel 3-9"-	Sample ID: 1-3-16
MC	1	72	0	5111	16	trace cobbles. 9-24"- Wet, stiff, brown, SILT, little fine sand, little clay. 24-42"-	Sample 112. 1-3-10
						Wet, dense, medium brown, medium to fine SAND, little silt.	
					17		
					18		
		<u> </u>		-	10		
					19		
		1			20		1
	SAMPLI	NG METHO	<u>)D</u>			COMMENTS:	
	MC=Macroo	core				Groundwater samples taken at 10-13', 13-5-16.5', and 17-19-5'	
					-		
L							

						PARSONS	BORING/ Page 2 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2 Boring 3
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			_	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	OTW:		5	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 11, 2014	_
Total Dep	th of Borii	ng:		23	ft bls	Date/Time Finish: August 11, 2014	-
Additiona	Commen	ts:					
-							
G 1				USCS	D. d		COMMENTS
Sample	SPT	Recovery	PID	USCS	Deptn (ft bls)	FIELD IDENTIFICATION OF MATERIAL	
Турс	511	Recovery	110	Symbol	20	0-36"- Wet, loose, gray, weathered shale and fine to coarse sand. Refusal at 23ft.	
MC		36"	0	GM			
					21		
						•	
					22		
					23		
					23		
					24		
					25	End of Boring	
					26		
					26		
					26		
					20		
					28		
					29		
					20		-
					30		
					31		
					32		
						•	
					33		
					34	•	
					54		
					35		1
					36		
					27		
					51		
					38		
				1	39		
							1
					40		
					<u> </u>		
	SAMDI T	NC METU		I		COMMENTS	<u> </u>
	MC=Macros	ore	<u></u>			COMMETIO.	
					-		
					-		

						PARSONS	BORING/ Page 1 of 2
Contracto	r: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2 Boring 4
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	robe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1		Location
Apparent l	Borehole I	DTW:		7	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 11, 2014	-
Total Dep	th of Boru	ng:		23	ft bls	Date/Time Finish: August 11, 2014	-
Additional	Commen	IS:					
				1	1		
Sample				USCS	Donth		COMMENTS
Type	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
1,100	011	Interest eng	110	0,11001	0	0-6"-Moist, dark brown, topsoil, roots. 6-42"- Dry, dense, light brown, fine to	
MC		48"	0	SM		coarse SAND, trace fine gravel. 42-48"- Moist, loose, light brown, medium to fine	
					1	SAND, little coarse sand.	
					2		
					2		
					5		
					4		
					'		
					5	0-6"- Moist, dense, brown, fine SAND, trace silt. 6-24"- Wet, dense, brown, fine	
MC		42'	0	SM		to medium SAND, little silt. 24-42"- Wet, loose, dark brown, medium to fine	
					6	SAND, trace coarse sand.	
					7		
					0	-	
					8		
					0	-	
					2		
					10	0-36"- Wet, loose, gray, medium to fine SAND, some coarse sand.	Sample taken at 15'
MC		36"	0	SM	_		Sample ID: 1-4-15
					11		_
					12		
					12		
					15		
					14	4	
					17		
				1	15	0-12"- Wet, stiff, brown-orange mottling, SILT and fine Sand. 12-48"- Wet, very	Sample taken at 17'
MC		54"	0	ML		stiff, brown, SILT, some clay, little fine sand. 48-54"- Wet, stiff, brown, SILT,	Sample ID: 1-4-17
					16	some fine sand, trace clay.	
					17		
					10		
					10		
			1	<u> </u>	19	+	
				1	20		1
							<u> </u>
	SAMPLI	NG METHO	<u>)D</u>			COMMENTS:	
	MC=Macroo	core					
						<u></u>	
-					-		
						1	
						PARSONS	BORING/ Page 2 of 2
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Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2 Boring 4
Driller:	Chris	Aldrich			-		Location Description:
Oversight	versight: Allison Jordan				-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	DTW:		7	ft bls	Deta / There Stands Account 11, 2014	<u>P</u> lan
Total Dep	th of Bori	vei:		23	ft bls	Date/Time Start: August 11, 2014	-
Additional	l Commen	its:		25	11 015	Duc, The Thish. August 11, 2014	1
Sampla				USCS	Dopth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					20	0-6"- Wet, loose, gray, medium to fine sand and weathered shale. 6-30"- Wet,	
MC		30"	0	GM	01	loose, gray, weathered shale, trace fine to coarse sand.	
					21		
					22		
					23		
					24		
					25	End of Boring	_
					25		
					26		
					26		
					28		
					29		
					30		_
					31		
					32		
					33		
					34		
					24		
					55		
					36		
					37		
					38		
					39		
					40		-
	SAMPLI	NG METHO	<u>)D</u>			COMMENTS:	
	MC=Macroo	core					
					-		

						PARSONS	BORING/ Page 1 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 1 Boring 5
Driller:	Chris	Aldrich			-	DDO FOT NAME. O 107 DO17	Location Description:
Oversignt	Georg	n Jordan			-	PROJECT Location: Rome NV	South of B817
nig Type.	CDOLDI	OUL TED O	DOEDVA	TIONG	•	Kone, W	
Apparent	GROUN Borehole I	DWATER O DTW:	BSERVA	10	ft bls		Plan
Measured	easured Water Level: NA ft bls					Date/Time Start: August 11, 2014	
Total Dept	th of Bori	ng:		22.5	ft bls	Date/Time Finish: August 11, 2014	1
Additional	l Commen	ts:					1
6				LIGOS	Durt		COMMENTS
Sample Type	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-12"-Moist, brown, topsoil. 12-36"-Dry, dense, brown, fine to coarse SAND,	
MC		48"	0	SM	1	trace fine gravel. 36-48"-Dry, loose, light brown, medium to find SAND, trace	
					1	coalse sand.	
					2	•	
					3		
					4		
					5	0-36"-Moist dense dark brown medium to fine SAND some coarse sand	-
MC		36"	0	SM	5	5 55 Molst, dollae, dalk brown, mediani to fine 57 1 vD, some course sand.	
					6		
					7		
					/		
					8	•	
					9		
					10	0-20"-Wet, loose, dark brown, fine to medium SAND, trace coarse sand. 20-24"-	-
MC		24"	0	SM		Wet, loose, dark brown, fine to coarse SAND, some medium to fine gravel.	
					11		
					12		
					13		
					14	•	
					1.4		
					15	0-3"-Wet, loose, gray, medium to fine SAND, trace coarse sand. 3-36"- Wet, stiff,	Samples taken at 16' & 18'
MC		48"	0	ML	16	brown-gray, SILT, some fine sand, little clay. 36-48"- Wet, loose, gary, medium	Sample IDs: 2-5-16
					16	to the orange, trace coarse saile.	and 2-5-18
					17		
					18		
					10		
					17		
					20		
•	SAMPLI	NG METHO	<u>)D</u>	·		COMMENTS:	
	MC=Macroo	core					
						<u></u>	
l -					•		

~		-				PARSONS	BORING/ Page 2 of 2
Contracto	Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2 Boring 5
Driller:	Chris	Aldrich			-	DDOIECT NAME. Criffing D917	Location Description:
Rig Type	Type: Geoprobe					PROJECT Location: Rome. NY	Soun of B81/
ing Type.		DWATER O	DCEDVA	TIONS		Rober Locaton. Rohe, 101	I continu
Apparent	Borehole I	DTW:	DJEKVA	7	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 11, 2014	<u> </u>
Total Dep	th of Borin	ng:		23	ft bls	Date/Time Finish: August 11, 2014	
Additional	l Commen	ts:					
Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
	~~~~				20	0-2"- Wet, loose, gray, medium to fine SAND and fine to coarse Gravel. 2-36"-	
MC		36"	0	GM	01	Wet, loose, gray, weathered shale, trace medium to fine sand. Refusal at 22.5ft.	
					21		Sample at 20'
					22		Sample ID-2-5-20
					23		
					24		
					25	End of Boring	-
					26		
					26		
					20		
					20		
					29		
					30		
					31		
					32		
					33		
					34		
					35		1
					36		
					37		
					38		
					39		
					40		4
					ro		
	SAMPI I	NG METHO	D	1		COMMENTS:	<u> </u>
	MC=Macroo	ore	<u></u>				
·					-		

						PARSONS	BORING/ Page 1 of 1
Contracto	stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2 Boring 6
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe				PROJECT Location: Kome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	DTW:		10	ft bls		Plan
Measured	Water Lev	vel:		NA 10	ft bls	Date/Time Start: August 11, 2014	-
Additional	Commen	ig: .te:		19	It dis	Date/Time Finish: August 11, 2014	-
Additiona	Commen						
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
MC		60"	0	SM	0	medium to fine SAND, some silt, trace medium to fine gravel. 50-60"- Moist,	
MC		00	0	5141	1	dense, dark brown, medium to fine SAND, trace coarse sand.	
					-		
				1	2		
					3		
					4		
					5	0-30"-Moist, dense, dark brown, medium to fine SAND, some coarse sand.	-
MC		30"	0	SM			
					6		
					7		
					8		
					0		
					9		
					10	0-25"- Wet, dense, dark brown, medium to fine SAND, some coarse sand, 2530"	-
MC		30"	0	SM		Wet, dense, dark brown, fien to coarse SAND, trace fine gravel.	
					11		
					12		
					10		
					13		
					14		
					17		
					15	0-6"- Wet, loose, dark brown, fine to coarse SAND, trace fine gravel. 6-18"- Wet,	Samples taken at 17' & 19
MC		36"	0	SM		very stiff, brown, SILT, some clay, tarce fine sand. 18-32"- Wet, loose, gray,	Sample IDs: 2-6-17
					16	medium to fine SAND. 32-36"- Wet, loose, gray, weathered shale, trace medium to fine sand	and 2-6-19
					17	to file said.	
					17		
					18		
					10		
					19		
				1	20	End of Boring	1
	SAMPLI	NG METHO	<u>)D</u>			COMMENTS:	
	MC=Macroo	core				<u></u>	
					-		
J						1	

						PARSONS	BORING/ Page 1 of 1
Contracto	r. Stone	Environmor	tal				WELL NO Transact 2 Baring 7
Drillor	Chric	Aldrich	ndi			DKILLING RECORD	Location Description:
Driner: Ovorsight	Allier	Alunch n Iordon			-	PROJECT NAME: Griffing P817	Location Description:
Rig Type	Geon	Geoprobe				PROJECT Location: Rome NY	South of B817
ing Type.			Barbin	TIONIC	-	Kone, III	•
A	GROUN	DWATER O	BSERVA	TIONS	6.1.1		Location
Magazinad	Wotor Lo	DIW:		10	ft bls	Date/Time Start: Avgust 12, 2014	Plan
Total Dop	th of Pori	ng:		10	ft blo	Date/Time Start: August 13, 2014	
Additional	Comme	nte:		19	IT DIS	Date/Time Finish: August 15, 2014	
Additional	Comme						
<i>a</i> .					<b>n</b>		COMMENTS
Sample	CDT	D	DID	USCS	Depth	FIELD IDENTIFICATION OF MATERIAL	
Type	SPI	Recovery	PID	Symbol	$(\mathbf{I}\mathbf{U}\mathbf{D}\mathbf{I}\mathbf{S})$	0-6"- Moist loose dark brown tonsoil grass roots 6-18"-Moist loose medium	
MC		30"	0	SM	0	brown fine to medium SAND trace coarse gravel 18-24"- Moist dense brown	
me		50	0	5141	1	fein to medium SAND, little silt, 24-30"- Moist, dense, brown, medium to fine	
					-	SAND.	
				1	2		
				1			
				1	3		
					4		
					5	0-42"- Moist, dense, medium brown, medium to fine SAND.	
MC		42"	0	SM	_		
					6		
					-		
					/		
					0		
					0		
					9		
					10	0-18"- Wet, dense, medium brown, medium to fine SAND, some coarse sand. 18	
MC		42"	0	SM		24"- Wet, loose, medium brown, coarse SAND and medium to fine Gravel. 24-	
					11	42"- Wet, dense, medium brown, fine to coarse SAND, little fine gravel, trace	
						medium to coarse gravel.	
					12		
					10		
					13		
		ļ			14		
				1	14		
				1	15	0-18"- Wet stiff brown SILT some clay some fine sand 18-28"- Wet stiff	Samples taken at 17' & 19'
MC		48"	0	ML-SM		brown, SILT and fine Sand. 28-44"- Wet, dense, brown, fine SAND and Silt. 44-	Sample IDs: 2-7-17
					16	42"- Wet, loose, gray-brown, fine to coarse SAND and weathered shale. Refusal	and 2-7-19
				1		at 19ft.	
				1	17		
					18		
				1	19		
				ļ	20		
				1	20	End of Boring	
		<u> </u>					
-	SAMPU	NG METU	OD	1	L	COMMENTS	<u> </u>
	MC=Macro	core					
					_		
-					-		

						PARSONS	BORING/ Page 1 of 2
Contracto	r: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2.5 Boring 1
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan				PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	robe				PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent l	Borehole I	DTW:		5	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 14, 2014	-
Total Dep	th of Borin	ng:		19.5	ft bls	Date/Time Finish: August 14, 2014	-
Additional	Commen	IS:					
Sampla				USCS	Donth		COMMENTS
Type	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
1,100	011	Interest eng	110	5,1100	0	0-8"-Moist, loose, dark brown, topsoil, roots. 8-14"- Moist, stiff, medium brown,	
MC		30"	0	SM		SILT and fine Sand. 14-30"-Moist, dense, medium brown, medium to fine SAND.	
					1		
						•	
					2		
					3		
					5		
					4		
					5	0-36"-Wet, dense, medium brown, medium to fine SAND.	Sample taken at 10'
MC		36"	0	SM			Sample ID: 2.5-1-10
					6		
					-		
					7		
					0		
					0		
					9		
					-		
					10	0-2"- Wet, dense, medium brown, medium to fine SAND. 2-18"- Wet, dense,	Sample taken at 15'
MC		48"	0	SM		medium brown, fine to coarse SAND, trace fine to medium gravel. 18-36"- Wet,	Sample ID: 2.5-1-15
					11	stiff, brown, SILT, some fine sand, trace clay. 36-42"- Wet, very stiff, gray-	
					12	brown, Sher and Chay, trace fine said.	
					12		
					13		
				1	14		
							1
					15	0-4"- Wet, stiff, gray-brown, SILT, some clay, little fine sand. 4-50"- Wet, stiff,	Sample taken at 19'
MC		54"	0	ML	16	prown, SIL1 and Tine Sand, some medium to fine gravel. 50-54"- Wet, loose,	Sample ID: 2.5-1-19
					10	Bray, "endered share, some the to course said. Refusal at 17.5it.	
					17		
					- /		
					18		
					19		
					20		4
					20	End of Boring	
				+			
-	SAMPLT	NG METHO	D	1	I	COMMENTS:	<u></u>
	MC=Macroo	core					

						PARSONS	BORING/ Page 1 of 1
Contracto	stone	Environmen	al			DRILLING RECORD	WELL NO. Transect 2.5 Boring 2
Driller:	Chris	Aldrich			-	DDO IECT NAME COST DO17	Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Kig Type:	Geopi	obe				rojeti Locauon: Kome, NY	
	GROUN	DWATER O	BSERVA	TIONS	6.1.1		
Apparent I Measured	Borehole I Water I o	DTW:		5 NA	ft bls	Date/Time Start: August 14, 2014	Plan
Total Dept	th of Bori	ng:		20	ft bls	Date/Time Start: August 14, 2014	1
Additional	Commen	its:		20	11 015	Dutty fille Fillion. rugust 14, 2014	1
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-8"- Moist, loose, dark brown, topsoil, roots. 8-30"- Moist, dense, medium	
MC		30"	0	SM	1	brown, medium to fine SAND.	
					1		
					2		
					-		
					3		
				ļ			
					4		
					5	0-36"- Wet dense medium brown medium to fine SAND	-
MC		36"	0	SM	5		
					6		
					7		
					0		
					8		
					9		
					10	0-24"- Wet, dense, medium brown, medium to fine SAND. 24-36"- wet, dense,	
MC		36"	0	SM		medium brown, fine to coarse SAND.	
					11		
					12		
					12		
					13	•	
					14		
					17		
MC		5 4 "	0	м	15	U-18"- Wet, stiff, brown, SILT, some fine sand, little fine gravel. 18-36"- Wet, stiff brown SILT some fine sand some clay 36-48"- Wet soft brown Silt and	Sample taken at 18' and 1
MC		54"	U	ML	16	fine Sand. 48-54"- Wet, loose, gray, weathered shale and fine to coare Sand.	and 2 5-2-20
					10		
				1	17		
					18		
┣───┤				-	10		
					19		
					20	End of Boring	1
						<u> </u>	
	SAMPLI	NG METHO	DD			COMMENTS:	
	MC=Macroo	core					
-					-		

						PARSONS	BORING/ Page 1 of 2
Contracto	r: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2.5 Boring 3
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geop	obe			-	PROJECT Location: <u>Rome, NY</u>	
	GROUN	DWATER O	BSERVA	TIONS	r	•	Location
Apparent l	Borehole I	DTW:		5	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 14, 2014	-
Total Dept	h of Borii	ng: tai		22	ft bls	Date/Time Finish: August 14, 2014	-
Additional	Commen	us:					
							COMMENTS
Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-6"- Moist, loose, dark brownb, topsoil, roots. 6-12"- Moist, soft, medium	
MC		30"	0	SM	L .	brown, SILT and fine Sand. 12-16"- Moist, stiff, brown, SILT and fine Sand. 16-	
					1	30 - Moist, dense, medium brown, line to medium SAND.	
				-	2		
				1	2		
					3	+	
					4		
					4		
					5	0-36"- Wet, dense, medium brown, medium to fine SAND.	
MC		36"	0	SM			
					6		
		-		-	7		
					/		
					8		
					9		
					10	0-30"- Wet, dense, medium brown, medium to fine SAND, some coarse sand. 30-	Sample taken at 15'
MC		48"	0	SM	11	36 - Wet, loose, medium brown, fine to coarse SAND, trace fine gravel. 36-48 -	Sample ID: 2.5-3-15
					11		
					12	•	
					13		
					14		
					15	0-12"- Wat stiff brown SILT some fine to madium sand little fine to madium	Sample taken at 10'
MC		36"	0	ML.	15	gravel. 12-24"- Wet, very stiff, gray-brown, SILT and Clay, some fine sand. 24-	Sample ID: 2.5-3-19
		50	5		16	36"- Wet, stiff, brown, SILT, and fine Sand.	
					17		
				<b> </b>	10		
					18		
					19		
					1)		
				1	20		1
	SAMPLI	NG METHO	D		L	COMMENTS:	
	MC=Macroo	core				Groundwater samples taken at 10-13', 13-5-16.5', and 17-19-5'	
l .					-		

						PARSONS	BORING/ Page 2 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2.5 Boring 3
Driller:	Chris	Aldrich					Location Description:
Oversight	ersight: Allison Jordan					PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	OTW:		5	ft bls		<u>P</u> lan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 14, 2014	_
Total Dep	th of Borin	ıg:		22	ft bls	Date/Time Finish: August 14, 2014	-
Additiona	Commen	ts:					
Sampla				USCS	Donth		COMMENTS
Type	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
1,00	011	Incester j	110	5,1100	20	0-18"- Wet, loose, gray, weathered shale, little fine to coarse sand. Refusal at	
MC		18"	0	GM		22ft.	
					21		
					22		
					22		
					23		
					24		
							_
					25	End of Boring	
					26	•	
					20		
					26		
					28		
					20		
					29		
					30		-
					31		
					32		
					33		
					00		
					34		
					0-		4
					35		
					36	•	
					50		
					37	•	
					38		
					20		
					39		
					40		-
	SAMPLI	NG METHO	DD			COMMENTS:	
	MC=Macroo	core					
					-		
L							

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2.5 Boring 4
Driller:	Chris	Aldrich			_		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent l	Borehole I	DTW:		7	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 14, 2014	
Total Dept	th of Borii	ng:		20	ft bls	Date/Time Finish: August 14, 2014	-
Additional	Commen	its:					
							COMMENTS
Sample	CIDE		DID	USCS	Depth	FIELD IDENTIFICATION OF MATERIAL	
Туре	SPT	Recovery	PID	Symbol	(ft bls)	0-8"- Moist loose dark brown tonsoil roots 8-18"- Moist dense brown fine	
MC		30"	0	SM	0	SAND and Silt. 18-30"- Moist, dense, medium brown, fine to medium SAND.	
		50	0		1		
					2		
					L		
					3		
┠───┤					4		
					4		
					5	0-42"- Moist (wet at 7') dense medium brown medium to fine SAND	-
MC		42"	0	SM	5	6 42 Molst (wet at 7), dense, mediani orown, mediani to file 571(1).	
			, , , , , , , , , , , , , , , , , , ,		6		
					7		
					8		
					0		
					9		
					10	0-6"- Wet, dense, medium brown, fine to coarse SAND, 6-8"- Wet, loose, brown.	Sample taken at 14'
MC		48"	0	ML	10	fine to coarse GRAVEL and fine to coarse Sand, some silt. 8-24"- Wet, stiff,	Sample ID: 2.5-4-14
					11	brown, SILT, some fine sand, little clay. 24-48"- Wet, very stiff, gray-brown,	-
						SILT and Clay, some fine sand.	
					12		
					12		
					15		
					14		
				1	15	0-18"- Wet, very stiff, gray-brown, SILT and Clay, some fine sand. 18-30"- Wet,	Sample taken at 18'
MC		42"	0	ML		stiff, brown, SILT and fine Sand. 30-42"- Wet, loose, gray, weathered shale and	Sample ID: 2.5-4-18
					16	tine to coarse Sand.	
					17		
					17		
				+	18		
					10		
				1	19	*	
					20	End of Boring	
	a			<u> </u>			
	<u>SAMPLI</u>	NG METHO	<u>UU</u>			COMMENTS:	
	MC=Macroo	core					
					-		

						PARSONS	BORING/ Page 1 of 1
Contracto	stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2.5 Boring 5
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1		Location
Apparent l	Borehole I	DTW:		5	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 14, 2014	_
Total Dep	th of Bori	ng:		19.5	ft bls	Date/Time Finish: August 14, 2014	4
Additional	Commen	IS:					
a 1				TIGOG	<b>n</b> 4		COMMENTS
Sample	SPT	Docovory	PID	USCS	Depth (ft ble)	FIELD IDENTIFICATION OF MATERIAL	
Type	51 1	Ketovery	ΠD	Symbol	0	0-6"- Moist, loose, dark brown, topsoil, roots. 6-18"- Moist, soft, dark brown,	
MC		42"	0	SM	-	SILT, some fine sand. 18-42"- Moist, dense, brown, medium to fine SAND	
					1		
					L		
					2		
┠───┤					2		
					5		
					4		
					5	0-42"- Wet, dense, medium brown, medium to fine SAND, trace silt.	1
MC		42"	0	SM			
					6		
						•	
					7		
					0		
					8		
					9		
					ĺ ĺ		
					10	0-30"- Wet, dense, medium brown, medium to fine SAND, trace silt. 30-48"-	Sample taken at 15'
MC		60"	0	SM-ML		Wet, stiff, brown, SILT, some fine sand, little clay. 48-60"- Wet, very stiff, gray-	Sample ID: 2.5-5-15
					11	brown, SILT, some clay, trace fine sand.	
					10		
					12		
					13		
					1.5		
				1	14		
					15	0-18"- Wet, stiff, gray-brown, SILT, some clay, little fine sand, trace fine gravel.	Sample taken at 18'
MC		60"	0	ML	16	18-42"- Wet, soft, brown, SILT and fine Sand, some fine gravel. 42-60"- Wet,	Sample ID: 2.5-5-18
					16	noose, gray, weathered shale, some meandin to thie sand. Kerusar at 19.311.	
┣───┤				+	17		
					1/		
				1	18	*	
					19		
							4
					20	End of Boring	
-	SAMPI T	NG METHO	מכ	1	1	COMMENTS	<u>. L</u>
	MC=Macroo	core				Contract (10)	
					-		
					-		

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 2.5 Boring 6
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			-	PROJECT Location: Rome, NY	
8 71	CROUN	DWATED	DCEDVA	TIONS	-		T anoticul
Apparant	GROUN	DWATER O	BSEKVA	110NS	ft bla		Dion
Magaurad	Watar L a	JIW.		J NA	ft blo	Dete/Time Starts August 14, 2014	
Total Dan	th of Bori	vel.		20	ft bls	Date/Time Start: August 14, 2014	-
Additional		ig. ite:		20	It bis	Date/Time Finish. August 14, 2014	-
Additiona	Commen						
							COMMENTS
Sample				USCS	Depth		
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
140		2.47	0		0	U-8" - Moist, loose, brown, topsoil, roots. 8-24" - Moist, dense, brown, medium to	
MC		24."	0	SM	1	The SAND, trace sit.	
					1		
					2		
					2 ²		
					3		
					5		
					4		
					5	0-18"- Wet, dense, medium brown, medium to fine SAND, trace silt, 18-48"-	-
MC		48"	0	SM	2	Wet, dense, medium brown, fine to coarse SAND.	
					6		
					-		
					7		
					8		
					9		
					10	0-8"- Wet, dense, meedium brown, fine to coarse SAND. 8-10"- Wet, loose,	Sample taken at 14'
MC		54"	0	ML		brown, fine to coarse SAND and fine to medium Gravel, some silt. 10-54"- Wet,	Sample ID: 2.5-6-14
					11	very suit, brown, SIL1, some cray, nue tine sand.	
					10		
					12		
					12		
					15		
					14	+	
					14		
					15	0-18"- Wet, stiff, brown, SILT and fine Sand. 18-48"- Wet, loose, gray weathered	Sample taken at 18'
MC		48"	0	ML-GM		shale, some fine to coarse sand.	Sample ID: 2.5-6-18
		~			16	+	· · · · · · ·
					-		
				1	17		
					18		
					19		
					20	End of Boring	
							<u> </u>
	SAMPLI	NG METHO	<u>)D</u>			COMMENTS:	
	MC=Macroo	core					

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 3 Boring 1
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	robe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	-		Location
Apparent 1	Borehole I	DTW:		5	ft bls		Plan
Measured	asured Water Level: NA ft bls					Date/Time Start: August 12, 2014	F
Total Dept	th of Borin	ng:		18	ft bls	Date/Time Finish: August 12, 2014	
Additional	Commen	its:					
		1		1	1		
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-8"- Moist, loose, brown, topsoil, roots. 8-16"- Dry, dense, light brown, medium	
MC		48"	0	SM		to fine SAND. 16-19"- Dry, dense, light brown, fine to coarse SAND. 19-22"-	
					1	Dry, dense, light brown, medium to fine SAND. 22-48"- Dry, dense, light brown,	
						Tine to coarse SAND.	
					2		
					_		
					3		
┝──┤					Α		
					4		
					5	0.24" Wat dance medium brown fine to scores SAND	-
MC		24"	0	SM	5	0-24 - wet, dense, medium brown, fine to coarse SAND.	
MC		24	0	3111	6		
					0		
					7		
					8		
					-		
					9		
					10	0-18"- Wet, loose, medium brown, fine to coarse SAND, trace fine gravel. 18-24"-	Sample at 15'
MC		42"	0	ML		Wet, stiff, brown, SILT, some fine sand. 24-42"- Wet, stiff, brown, SILT, some	Sample ID-3-1-15
					11	fine sand, little clay.	
					12		
					10		
					13		
					14		
					14		
					15	0-18"- Wet, stiff, brown, SILT, some fine sand, little clay, 18-32"- Wet, dense	Sample at 18'
MC		36"	0	ML-SM		light brown, fine SAND and Silt, trace fine gravel. 32-36"- Wet, loose, gray,	Sample ID-3-1-18
					16	weathered shale. Refusal at 18ft.	· · · ·
					-		
				1	17		
					18		
					L		
					19		
					20		4
					20	End of Boring	
-	SAMDI T	NC METHO	מנ	I		COMMENTS	
	MC=Macro	TAG TATE LUC	<u></u>				
· ·							_

						PARSONS	BORING/ Page 1 of 2
Contracto	stone	Environmen	al			DRILLING RECORD	WELL NO. Transect 3 Boring 2
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe				PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1	•	Location
Apparent l	Borehole I	DTW:		5	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 12, 2014	-
Total Dep	th of Borii	ng:		22	ft bls	Date/Time Finish: August 12, 2014	-
Additional	Commen	its:					
6				USCS	D. d		COMMENTS
Sample	SPT	Recovery	PID	Symbol	Deptn (ft bls)	FIELD IDENTIFICATION OF MATERIAL	
1,700	01 1	Recovery	110	Symbol	0	0-6"- Moist, loose, brown, topsoil, roots. 6-18"- Dry, dense, meidum brown, fine	
MC		48"	0	SM		to coarse SAND. 18-24"- Dry, dense, light brown, medium to fine SAND.	
					1		
					2		
					_		
					3		
					1		
					+		
					5	0-24"- Wet dense medium brown fine to coarse SAND	-
MC		24"	0	SM	5		
					6		
					7		
					8		
					0		
					9		
					10	0.52" Wat dansa madium brown fina to coarse SAND 52.60" Wat stiff	Sample taken et 14'
MC		60"	0	SM	10	brown. SILT and fine Sand.	Sample ID: 2-2-14
me		00	0	5141	11		bumple ib. 2 2 14
					12		
					13		
					1.4		
					14		
					15	$\Omega_{*}24$ "- Wet stiff brown SIIT and fine Sand $24-40$ "- Wet dense brown fine	Sample taken at 17'
MC		48"	0	MI -SM	1.5	SAND, some silt, 40-48"- Wet, loose, grav. fine to coarse SAND and weathered	Sample ID: 2-2-17
me			0	1112-0141	16	shale.	Sumple 10. 2 2 17
					-		
				1	17		
					18		
					10		
					19		
					20		4
					20		
I							
· ·	SAMPLI	NG METHO	DD	I	I	COMMENTS:	I
	MC=Macro	core	<u></u>				
					-		
					-		

						PARSONS	BORING/ Page 2 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 3 Boring 2
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			
Apparent 1	Borehole I	DTW:		5	ft bls		Plan
Measured Total Dani	Water Lev	vel:		NA 22	ft bls	Date/Time Start: August 12, 2014	
Additional	l Commen	ig. ts:		22	It bis	Date/Time Finish: August 12, 2014	
. Iduitionu							
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
MC		24"	0	CM	20	0-24"- Wet, loose, gray, weathered shale. Refusal at 22ft.	
MC		24	0	GM	21		
					22		
					23		
					24		
					25	End of Boring	
					26		
					26		
					20		
					28		
					29		
					30		
					31		
					32		
					33		
					34		
					35		
					36		
					37		
					38		
					30		
					37		
					40		
	CAN/DI -						
	5AMPLI MC=Macroo	ING METH(	<u>עו</u>			COMMENTS:	
					-		

						PARSONS	BORING/ Page 1 of 1
Contracto	stone	Environmen	al			DRILLING RECORD	WELL NO. Transect 3 Boring 3
Driller:	Chris	Aldrich			-		Location Description:
Oversight	ersight: Allison Jordan				-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	r	•	Location
Apparent l	Borehole I	DTW:		5	ft bls		<u>P</u> lan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 12, 2014	-
Total Dept	th of Bori	ng: tai		20	ft bls	Date/Time Finish: August 12, 2014	-
Auditional	Commen	us.					
							COMMENTS
Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-3"-Moist, loose, dark brown, topsoil, roots. 3-36"- Dry, dense, light brown,	
MC		36"	0	SM		medium to fine SAND, some coarse sand.	
					1		
					2	•	
					-		
					3	+	
					4		
					_		_
MC		26"	0	CM.	5	0-36"- Wet, dense, meidum brown, fine to coarse SAND.	
MC		30	0	SM	6		
					0		
					7	•	
					8		
					9		
					10	$0_{-42}$ ", Wet dense medium brown fine to coarse SAND trace fine gravel	-
MC		42"	0	SM	10	6 42 Wei, dense, medium brown, rme to course brit (b), nace rme graven.	
					11		
					12		
					12		
					15		
					14		
					15	0-24"- Wet, stiff, brown, SILT, some fine sand, little clay. 24-36"- Wet, loose,	Samples taken at 16'
MC		48"	0	SM-ML	1	brown, fine SAND, trace fine gravel. 36-48"- Wet, gray, loose, fine to coarse	and 19'
					16	SAND and weathered shale. Kelusal at 2011.	Sample IDs: 3-3-16
					17	•	and 3-3-19
					1/		
					18	•	
					19		
				ļ	20	P 1 (D )	4
					20	End of Boring	
	SAMPLI	NG METHO	DD	I	I	COMMENTS:	1
	MC=Macroo	core				Groundwater samples taken at 10-13', 13-5-16.5', and 17-19-5'	
l .					=		

						PARSONS	BORING/ Page 1 of 1
Contracto	stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 3 Boring 4
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	robe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	r		Location
Apparent 1	pparent Borehole DTW: 5 ft bls				ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 12, 2014	-
Additional	Commen	ig: .te:		20	It DIS	Date/Time Finish: August 12, 2014	-
Additional	Commen						
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
140				<i></i>	0	0-8"- Moist, loose, brown, topsoil, roots. 8-42"- Moist, dense, light brown, fine to	
MC		42"	0	SM	1	meanum SAND.	
					1		
					2		
					3		
					1		
					-		
					5	0-42"- Wet, dense, medium brown, fine to coarse SAND.	
MC		42"	0	SM			
					6		
					7		
					/		
					8		
					-		
					9		
					10		_
MC		60"	0	SM	10	0-52"- Wet, dense, medium brown, fien to coarse SAND. 52-53"- Wet, stiff, brown SILT and fine Sand, trace fine sand, 53-60", Wet, stiff, brown, SILT	
MC		00	0	311	11	some fine sand.	
					12		
					13		
					14	+	
					17		
				1	15	0-30"- Wet, stiff, brown, SILT, some fine sand, little clay. 30-42"- Wet, loose,	Samples taken at 16'
MC		48"	0	ML		brown, fine SAND, little silt. 42-48"- Wet, loose, gray, fine to coarse SAND and	and 19'
					16	weathered shale. Refusal at 20ft.	Sample IDs: 3-4-16
				<u> </u>	17		and 3-4-19
					1/		
					18		
					19		
					20	End of Doring	4
					20	End of Dornig	
	SAMPLI	NG METHO	)D			COMMENTS:	
	MC=Macroo	core					
-					-		
l						1	

						PARSONS	BORING/ Page 1 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 3 Boring 5
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geop	robe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	_		Location
Apparent l	Borehole I	DTW:		5	ft bls		Plan
Measured	Water Le	vel:		NA	ft bls	Date/Time Start: August 12, 2014	F
Total Dept	th of Bori	ng:		20	ft bls	Date/Time Finish: August 12, 2014	1
Additional	Commen	its:					1
		1			1		
Sample				USCS	Denth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-8"- Moist, loose, brown, topsoil roots. 8-36"- Moist, dense, medium brown,	
MC		36"	0	SM		fine to medium SAND.	
					1		
					2		
				<u> </u>			
					3		
					Δ		
					4		
					5	0.48" Wt. dense. maidum brown fine to coarse SAND	-
MC		48"	0	SM	5	0-40 - wt, dense, meldum brown, mie to coarse SALVD.	
me		40	0	5141	6		
					Ŭ		
					7		
					8		
					9		
					10	0-36"- Wet, dense, medium brown, fine to coarse SAND. 36-38"- Wet, loose,	Sample taken at 15'
MC		60"	0	SM-ML	11	brown, line SAND, some sill, trace coarse sand. 38-00 - wet, sull, brown, SiL1, some fine sand little clay, trace fine gravel	Sample ID: 3-5-15
					11	some fine sand, inde endy, date fine graver.	
					12		
					12		
					13		
				1	14		
					15	0-18"- Wet, stiff, brown, SILT, some fine sand, trace clay. 18-58"- Wet, loose,	Samples taken at 16 '
MC		60"	0	SM		brown, fine SAND, some silt. 58-60"- Wet, loose, gray, weathered shale and fine	and 20'
					16	to coarse sand.	Sample IDs: 3-5-16
				<b> </b>	17		and 3-5-20
					17		
				<u> </u>	18		
					10		
			L	1	19		
				1	20	End of Boring	1
	SAMPLI	NG METHO	DD			COMMENTS:	
	MC=Macroo	core					
					=		

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 3 Boring 6
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			_	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	DTW:		5	ft bls		Plan
Measured	easured Water Level: NA ft bls				ft bls	Date/Time Start: August 12, 2014	Γ
Total Dep	tal Depth of Boring: 19.8 ft bls					Date/Time Finish: August 12, 2014	
Additional	Commen	its:					
							COMMENTS
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-8"-Moist, losoe, brown, topsoil, roots. 8-36"- Moist, dense, light brown,	
MC		36"	0	SM		medium to fine SAND, some coarse sand between 20-36".	
					1		
					2	•	
					2		
					3		
					4		
					5	0-36"- Wet, dense, meidum brown, medium to fine SAND, some coarse sand.	
MC		36"	0	SM			
					6		
		-			7		
					7		
		-			0	•	
					0		
					9		
					10	0-6"- Wet, dense, medium brown, medium to fine SAND, some coarse sand. 6-	Sample taken at 14'
MC		48"	0	ML		30"- Wet, stiff, brown, SILT and fine Sand. 30-48"- Wet, very stiff, brown, SILT,	Sample ID: 3-6-14
					11	some fine sand, some clay.	
					12		
					12		
					15		
			1		14		
				1	15	0-6"- Wet, stiff, brown, SILT, some fine sand. 6-24"- Wet, loose, brown, medium	Sample taken at 18'
MC		42"	0	SM		to fine SAND, some fine to coarse gravel. 24-42"- Wet, loose, gray, fine to coarse	Sample ID: 3-6-18
					16	SAND and weathered shale.	
					4-		
					17		
					10		
					18		
					19		
				1	20	End of Boring	1
	SAMPLI	NG METHO	<u>)D</u>			COMMENTS:	
	MC=Macroo	core					
					=		

						PARSONS	BORING/ Page 1 of 1
Contracto	r: Stone	Environment	al			DRILLING RECORD	WELL NO. Transect 3 Boring 7
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	FIONS			Location
Apparent l	Borehole I	DTW:		5	ft bls		Plan
Measured	easured Water Level: NA ft bls					Date/Time Start: August 13, 2014	-
Total Dep	th of Born	ng:		20	ft bls	Date/Time Finish: August 13, 2014	-
Additional	Commen	ts:					
		-		r			
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-4"- Moist, loose, dark brown, topsoil, roots. 4-16"- Moist, dense, medium	
MC		30"	0	SM		brown, fine SAND, some medium sand. 16-30"- Moist, dense, medium brown,	
					1	The to medium SAIND, inthe coarse sand.	
					2	•	
					2		
					3		
					-		
					4		
					5	0-24"- Wet, dense, medium brown, fine SAND, some medium sand. 24-48"- Wet,	
MC		48"	0	SM		dense, medium brown, fine to medium SAND transitioning to fine to coarse sand.	
					6		
					7	•	
					8	•	
					9		
							_
140		c0"	0		10	0-24"- Wet, dense, medium brown, fine to coarse SAND. 24-27"- Wet, loose,	Samples taken at 12'
MC		60	0	ML	11	stiff, brown, SILT, some fine sand. 39-51"- Wet, stiff, brown, SILT, and Clay,	and 14 Sample IDs: 3.7.12
					11	trace fine sand. 51-60"- Wet, stiff, brown, SILT and fine Sand.	and 3-7-14
					12		
					13		
						•	
					14		
					15	0-18"- Wat stiff brown SILT and fine Sand 18 20" Wat dansa brown	Sample taken at 10'
MC		36"	0	ML-SM	1.5	medium to fine SAND. 20-30"- Wet, dense, brown, fine to coarse SAND. 30-36"-	Sample ID: 3-7-19
		50	5		16	Wet, loose, brown, fine to coarse GRAVEL, trace cobbles. Refusal and 20ft.	
					-		
					17		
						*	
					18		
					10		
					19		
				1	20	End of Boring	1
	SAMPLI	NG METHO	DD			COMMENTS:	
	MC=Macroo	ore				- <u></u>	
-					-		
L							

						PARSONS	BORING/ Page 1 of 1
Contracto	r: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 4 Boring 1
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	robe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1		Location
Apparent l	Borehole I	DTW:		4	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 12, 2014	-
Total Dep	th of Boru	ng:		18	ft bls	Date/Time Finish: August 12, 2014	-
Additional	Commen	IS:					
Sampla				USCS	Donth		COMMENTS
Type	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
1,100	011	Interest eng	110	0,11001	0	0-4"- Moist, loose, dark brown, topsoil, roots. 4-8"- Moist, dense, medium brown,	
MC		30"	0	SM		medium to fine SAND, some coarse sand. 8-18"-Moist, dense, light brown,	
					1	medium to fine SAND, little silt. 18-30"- Wet, dense, medium brown, medium to	
					_	The SAND, some coarse sand.	
					2		
			1		3		
					5		
					4	•	
					5	0-20"- Wet, dense, medium brown, medum to fine SAND, some coarse sand. 20-	1
MC		48"	0	SM		48"- Wet, dense, medium brown, fine to coarse SAND.	
					6		
		-			-		
					/		
					8		
					0		
					9		
					10	0-24"- Wet, dense, medium brown, fine to coarse SAND, trace fine to medium	Sample at 14'
MC		42"	0	SM		gravel. 24-26"- Wet, loose, brown, fine to coarse GRAVEL and fine to coarse	Sample ID-4-1-14
					11	dense, medium brown, fine to coarse SAND.	
					12		
					12		
					13		
					14		
					1-		
MG		2.4"	0	014	15	0-20"- Wet, dense, medium brown, fine to coarse SAND, trace weathered shale.	Sample at 18'
MC		24"	U	SM	16	18ft.	Sample ID-4-1-18
					10		
					17		
					18		
					4-		
					19		
					20	End of Boring	4
					20	Lind of Dornig	
· ·	SAMPLI	NG METHO	DD	•	•	COMMENTS:	
	MC=Macroo	core					
					-		

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 4 Boring 2
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	-		Location
Apparent 1	Borehole I	DTW:		5	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 12, 2014	F IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Total Dept	th of Borii	ng:		18.5	ft bls	Date/Time Finish: August 12, 2014	1
Additional	Commen	its:					
		1			-		
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-4"- Moist, loose, dark brown, topsoil, roots. 4-10"- Moist, dense, light brown,	
MC		30"	0	SM		medium to fine SAND. 10-30"- Moist, dense, medium brown, medium to fine	
					1	SAND, some coarse sand.	
					-		
					2		
					2		
					5		
					Λ		
					4		
					5	0-36"- Wet dense medium brown medium to fine SAND some coarse sand	-
MC		36"	0	SM	0	trace fine gravel.	
					6	-	
					7		
					8		
					9		
					10		-
MC		10"	0	SM MI	10	0-24 - wet, dense, medium brown, medium to fine SAND, some coarse sand, trace fine gravel 24-48". Wet stiff brown SILT some fine sand little clay trace	
MC		+0	0	SIM-IVIL	11	medium to fine gravel.	
					12		
					13		
					14		
					15	0-12"- Wat stiff brown SILT and fine Sand 12.24" Wat loose grow weathared	Somplos takon at 16'
MC		24"	0	ML-GM	1.5	shale and fine to coarse Sand.Refusal at 18.5ft.	and 18 5'
me		27	0	OW	16		Sample IDs: 4-2-16
					-		and 4-2-18.5
				1	17		
					18		
					10		
					19		
┣───┤					20	End of Boring	4
					20	Lind of Doring	
			1	<u> </u>	<u> </u>		
-	SAMPLI	NG METHO	DD	1		COMMENTS:	<u> </u>
	MC=Macroo	core					
					=		

						PARSONS	BORING/ Page 1 of 1
Contracto	stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 4 Boring 3
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			_	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent l	Borehole I	DTW:		5	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 12, 2014	
Total Dept	th of Borii	ng:		18.5	ft bls	Date/Time Finish: August 12, 2014	_
Additional	Commen	its:					
							COMMENTS
Sample				USCS	Depth		
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
MC		30"	0	SM	0	brown medium to fine SAND some coarse sand trace fine gravel	
MC		50	0	3101	1	brown, medium to mie brittib, some course sund, there mie graven.	
					-		
					2		
					3		
						•	
					4		
				-	5	0.20" Wet down medium because medium to fine CAND come come and	-
MC		26"	0	SM	3	trace silt	
MC		50	0	3101	6		
					Ŭ		
					7		
					8		
					9		
					10		
MC		60"	0	мі	10	trace silt 30-56"- Wet stiff brown SILT some fine sand trace clay 56-60"-	Sample ID: 4.3.15
MC		00	0	MIL	11	Wet, stiff, brown, SILT, some clay and fine sand.	Sample 1D. 4-3-15
					12		
					13		
					14		
					14		
			1		15	0-12"- Wet, stiff, brown, SILT, some clay, some fine sand, little fine gravel 12-	Sample taken at 17'
MC		24"	0	ML-SM		24"- Wet, loose, gray, fine to coarse SAND and weathered shale.	Sample ID: 4-3-17
				1	16		-
					17		
				1	10		
					18		
					10		
					17		
				1	20	End of Boring	1
	SAMPLI	NG METHO	DD			COMMENTS:	
	MC=Macroo	core				Groundwater samples taken at 10-13', 13-5-16.5', and 17-19-5'	
-					-		
L							

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 4 Boring 4
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			_	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	DTW:		5	ft bls		Plan
Measured	asured Water Level: NA ft bls				ft bls	Date/Time Start: August 12, 2014	Γ
Total Dep	th of Borii	ng:		19.75	ft bls	Date/Time Finish: August 12, 2014	
Additional	Commen	its:					
		1					COMMENTS
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-4"- Moist, loose, dark brown, topsoil, roots. 4-30"- Moist, dense, medium	
MC		30"	0	SM		brown, medium to fine SAND, some coarse sand.	
					1		
					2		
					2		
			1		3		
					5		
					4		
					5	0-54"- Wet, dense, medium brown, medium to fine SAND, some coarse sand.	-
MC		54"	0	SM			
					6		
					_		
					7		
					0		
					8		
					0	•	
					7		
					10	0-42"- Wet, dense, medium brown, medium to fine SAND, some coarse sand, 42-	Sample taken at 15'
MC		60"	0	SM		48"- Wet, stiff, brown, SILT and fine Sand, little fine gravel. 48-60"- Wet, stiff,	Sample ID: 4-4-15
					11	brown, SILT, some fine sand, little clay.	
					12		
					10		
					13		
					14		
					14		
				-	15	0-12"- Wet, stiff, brown, SILT, some fine sand trace clay trace fine gravel 12-	Sample taken at 18'
MC		36"	0	SM		18"- Wet, loose, light-medium gray, fine to coarse SAND, some fine to coarse	Sample ID: 4-4-18
					16	gravel, little weathered shale. 18-36"- Wet, loose, gray, weathered shale, some	<b>x</b> · · · ·
						medium to fine sand.	
					17		
					18		
					10		
					19		
				<u> </u>	20	End of Boring	4
					20	Lind of Doring	
l .	SAMPLI	NG METHO	DD	1		COMMENTS:	
	MC=Macroo	core					
<b> </b> ,					=		

						PARSONS	BORING/ Page 1 of 2
Contracto	Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 4 Boring 5
Driller:	Chris	Aldrich			-	DDAIECT MAME, C-iffer- D917	Location Description:
Dig Town	Alliso	n Jordan			-	PROJECT Legation: Pome NV	South of B817
Kig Type:	Geopi		D 0 0 0		-	I KOJECI LOCAUOII; KOIIE, IVI	
A	GROUN	DWATER O	BSERVA	TIONS	G h1-	•	Location
Apparent I Measured	Water Ley	DIW:		5 NA	ft bls	Date/Time Start: August 12 2014	
Total Dept	th of Bori	19:		21	ft bls	Date/Time Finish: August 12, 2014	-
Additional	Commen	its:		21	11 015	2000, 1000 1000, 1000 12, 2011	1
							COMMENTS
Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-4"- Moist, loose, dark brown, topsoil, roots. 4-30"- Moist, dense, medium	
MC		30"	0	SM		brown, medium to fine SAND, some coarse sand.	
					1		
					2		
					-		
					3		
					4		
					4		
					5	0-42"- Wet, dense, medium brown, medium to fine SAND, some coarse sand.	1
MC		42"	0	SM			
					6		
					7	•	
					'		
					8	•	
					9		
					10		-
MC		30"	0	SM	10	30"- Wet, stiff, brown, SILT and fine Sand, little clav from 28-30".	
me		50	0	5141	11		
					12		
					12		
					15		
╞──┤					14		
					15	0-6"- Wet, stiff, brown, SILT, some fine sand, little clay. 6-28"- Wet, loose, gray,	Sample taken at 16'
MC		30"	0	SM	14	medium to fine SAND. 28-30"- Wet, loose, gray, weathered shale.	and 20'
					16		Sample ID: 4-5-16 and 4-5-20
					17		anu 4-5-20
					18		
					10		
					19		
					20		1
-	SAMPI I	NG METHO	מכ	<u> </u>	L	COMMENTS:	<u> </u>
	MC=Macroo	core	<u>,,,</u>			Connecto.	
					=		

						PARSONS	BORING/ Page 2 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 4 Boring 5
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			_	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	OTW:		5	ft bls		<u>P</u> lan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 12, 2014	
Total Dep	th of Borii	ng:		21	ft bls	Date/Time Finish: August 12, 2014	
Additiona	Commen	ts:					
G 1				USCS	D. d		COMMENTS
Sample	SPT	Recovery	PID	USCS	Deptn (ft bls)	FIELD IDENTIFICATION OF MATERIAL	
Type	511	Recovery	110	Symbol	20	0-4"- Wet, loose, gray, weathered shale. Refusal at 21ft.	
MC		4"	0	GM			
					21		
					22		
					23		
					23		
					24		
					25	End of Boring	
					26		
					26		
					26		
					20		
					28		
					29		
					20		
					30		
					31		
					32		
					33		
					3/1		
					54		
				1	35		
					36		
					27		
					51		
					38		
				1	39		
					40		
					<u> </u>		
	SAMDI T	NC METU		I		COMMENTS	
	MC=Macro	ore	<u></u>			COMMENTS.	
					-		
					-		

						PARSONS	BORING/ Page 1 of 1
Contracto	stone	Environmen	al			DRILLING RECORD	WELL NO. Transect 4 Boring 6
Driller:	Chris	Aldrich			-	DDATECT MAME, Criffing D017	Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Kig Type:	Geopi	obe				rkujeui Location: Kome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	DTW:		5	ft bls		Plan
Measured	water Le	vel:		10.5	ft ble	Date/Time Start: August 12, 2014	-
Additional	Commen	ig. is:		19.5	It bis	Date/Time Finish: August 12, 2014	-
ruuntional	Commen						
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	0-8"-Moist loose brown topsoil roots 8-30"- Moist dense light brown	
MC		30"	0	SM	0	medium to fine SAND, some coarse sand.	
					1		
					2		
					3		
					4		
					4		
					5	0-36"- Wet, dense, meidum brown, fine to coarse SAND.	-
MC		36"	0	SM	-	· · · · · · · · · · · · · · · · · · ·	
					6		
					7		
					0		
					ð		
					9		
					Í		
					10	0-12"-Wet, dense, brown, fine SAND and Silt. 12-18"- Wrt, stiff, brown, SILT,	Sample taken at 14'
MC		42"	0	ML		some fine sand. 18-42"- Wet, stiff, brown, SILT, some clay, some fine sand.	Sample ID: 4-6-14
					11		
					12		
					12		
					13		
				1	14		
					L		4
		100	c		15	0-42"- Wet, dense, gray, weathered shale and fine to coarse Sand.	Sample taken at 19'
MC		42"	0	GM	16		Sample ID: 4-6-19
					10		
				1	17	*	
					18		
					10		
					19		
				+	20	End of Boring	4
					20	Lind of Doning	
l	SAMPLI	NG METHO	) <u>D</u>			COMMENTS:	
	MC=Macroo	core					
						- <u></u>	
					-		

						PARSONS	BORING/ Page 1 of 2
Contracto	Stone	Environment	al			DRILLING RECORD	WELL NO. Transect 5 Boring 0
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	DTW:		4	ft bls		Plan
Measured	Measured Water Level: NA ft bls				ft bls	Date/Time Start: August 14, 2014	-
Total Dep	th of Borir	ıg:		22	ft bls	Date/Time Finish: August 14, 2014	-
Additiona	Commen	ts:					
							COMMENTS
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-10"- Moist, loose, dark brown, topsoil, roots. 10-18"- Moist, stiff, dark brown,	
MC		42"	0	SM	1	SILT, some fine to medium sand, trace fine gravel. 18-42"- Moist-wet, sense,	Sample at 5'
					1	includin brown, includin to fine SATAD.	Sample ID-5-0-5
					2		
					-		
					3		
					4		
					5	0-30"- Wet, dense, brown, medium to fine SAND. 30-54"- Wet, dense, medium	Sample at 10'
MC		54"	0	SM		brown, medium to fine SAND, some coarse sand.	Sample ID-5-0-10
					6		
					7	•	
					/		
					8		
					0		
					9		
					10	0-12"- Wet, stiff, brown, SILT, some fine sand. 12-36"- Wet, stiff, brown, SILT,	Sample at 13'
MC		60"	0	ML		some fine sand, little clay. 36-60"- Wet, stiff, bornw, SILT and fine Sand.	Sample ID-5-0-13
					11		
					12	•	
					12		
				1	13		
				İ	14		
					15	0-10"- Wet, stiff, brown, SILT and fine Sand. 10-20"- Wet, very stiff, gray-brown,	Sample at 20'
MC		42"	0	ML	1.5	SILT and Clay, little fine sand. 20-40"- Wet, stiff, brown, SILT, some fine sand.	Sample ID-5-0-20
					16	TOTE - We, dense, brown, medium to fille SAND.	
					17		
					1/		
					18		
					-		
				1	19		
							1
					20		
	C 4 3 / DY -				1		<u> </u>
	<u>SAMPLI</u>	NG METHO	<u>10</u>			COMMENTS:	
	wiC=Macroc	:010					
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						PARSONS	BORING/ Page 2 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 5 Boring 0
Driller:	Chris	Aldrich			_		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1		Location
Apparent	Borehole I	DTW:		4	ft bls		Plan
Measured Total Dan	Water Lev	vel:		NA 22	ft bls	Date/Time Start: August 14, 2014	-
Additional	l Commen	ig. ts:		22	It bis	Date/Time Finish: August 14, 2014	-
. Iduitiona							
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
140		10"	0		20	0-6"- Wet, stiff, brown, SILT and fine sand, some weathered shale. 6-18"- Wet,	
MC		18"	0	SM	21	loose, gray, weathered shale and thie to coarse Sand. Refusal at 221t.	
					21		
					22		
					23		
					24		
					25	End of Boring	-
					26		
					26		
					20		
					28		
					29		
					30		
					31		
					32		
					33		
					34		
					35		-
					36		
					37		
					20		
					38		
					39		
					40		
	a						
	SAMPLI MC=Macroo	NG METHO	<u>)D</u>			COMMENTS:	
					-		
I							

						PARSONS	BORING/ Page 1 of 1
Contracto	stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 5 Boring 1
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1		Location
Apparent l	Borehole I	DTW:		5	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 12, 2014	-
Total Dep	th of Boru	ng:		19.5	ft bls	Date/Time Finish: August 12, 2014	-
Additional	Commen	IS:					
							COMMENTS
Sample				USCS	Depth		community
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
140		20"	0	~	0	0-12"- Moist, loose, dark brown, topsoil, roots. 12-24"- Moist, dense, light brown,	
MC		30"	0	SM	1	fine SAND, some coarse sand.	
					1		
					2		
					3		
					4		
					-		
					5	0-48"- Wet, dense, medium brown, medium to fine SAND, some coarse sand.	1
MC		48"	0	SM			
					6		
					7		
					/		
					8		
					Ŭ		
					9		
					10	0-2"- Wet, dense, medium brown, medium to fine SAND, some coarse sand. 2-	Sample taken at 14'
MC		60"	0	ML	11	gray, CLAY, some silt, little fine sand, 50-60"- Wet, stiff, brown, SILT, some fine	Sample ID: 5-1-14
					11	sand.	
					12	•	
					13		
						•	
					14		
					15	0.8", Wat stiff brown SILT and fine to coarse Sand some fine to occurs arrival	Sample taken at 10'
MC		48"	0	MI -SM	1.5	8-20"- Wet, dense, brown, fine SAND and Silt. 20-46"- Wet, very stiff. brown.	Sample ID: 5-1-19
me				171L-01VI	16	SILT and Clay, some fine sand, trace fine gravel. 46-48"- Wet, very stiff, gray-	Sample 19. 5 1 17
					-	brown, CLAY and Silt, little weathered shale. Refusal at 19.5ft.	
					17		
					10		
					18		
					19		
					17		
			-	1	20	End of Boring	1
-	SAMPI T	NG METHO	מכ			COMMENTS	<u> </u>
	MC=Macroo	core	<u></u>				

						PARSONS	BORING/ Page 1 of 1
Contracto	stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 5 Boring 2
Driller:	Chris	Aldrich			-	DDOIECT MAME, Criffing D017	Location Description:
Oversignt	Geop	n Jordan			-	PROJECT Location: Rome NV	South of B817
nig Type.	CROUN	DWATED	DGEDVA	TIONG	-	Rosect Location. Rome, 141	
Apparent	GROUN	DWATER O	BSERVA	TIONS	ft bls		Location Plan
Measured	Measured Water Level: NA ft bls				ft bls	Date/Time Start: August 12, 2014	
Total Dept	th of Borin	ng:		19	ft bls	Date/Time Finish: August 12, 2014	1
Additional	Commen	its:					
Samula				USCE	Danth		COMMENTS
Type	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-6"- Moist, loose, dark brown, topsoil, roots. 6-24"- Moist, dense, medium	
MC		24"	0	SM	1	brown, medium to fine SAND, some coarse sand.	
					1		
					2		
					3		
					4		
					4		
					5	0-52"- Wet, dense, medium brown, medium to fine SAND, some coarse sand. 52-	
MC		60"	0	SM		60"- Wet, very stiff, brown, SILT and Clay, trace fine sand and fine gravel.	
					6		
					7	•	
					,		
					8		
					0		
					9		
					10	0-14"- Wet, stiff, brown, SILT and fine Sand. 14-26"- Wet, dense, brown, fine	Sample taken at 14'
MC		60"	0	ML		SAND and Silt. 26-40"- Wet, stiff, brown, SILT and fine Sand, trace clay. 40-50"-	Sample ID: 5-2-14
					11	brown, medium to fine SAND.	
					12		
					13		
					14		
					14		
				1	15	0-3"- Wet, stiff, brown, SILT and fine Sand, some fine to coarse gravel. 3-24"-	Sample taken at 17'
MC		48"	0	ML-SM		Wet, dense, brown, medium to fine SAND, trace silt. 24-48"- Wet, stiff, brown,	Sample ID: 5-2-19
					16	at 19ft.	
					17		
					17		
					18		
					10		
					19		
			-		20	End of Boring	1
					ļ		
	0 A 3 4757 -						<u> </u>
	<u>5AMPLI</u> MC=Maeree	ING METHO	<u>u</u>			CONTREENTS: Groundwater samples taken at 10-13', 13-5-16.5', and 17-19-5'	
					=		

						PARSONS	BORING/ Page 1 of 1
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 5 Boring 3
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopr	obe			•	PROJECT Location: Rome, NY	
	GROUN	DWATER O	<b>BSERVA</b>	TIONS			Location
Apparent	Borehole I	DTW:	DODICTI	5	ft bls	•	Plan
Measured	easured Water Level: NA ft bls				ft bls	Date/Time Start: August 12, 2014	
Total Dep	th of Borin	ng:		19	ft bls	Date/Time Finish: August 12, 2014	
Additional	Commen	its:					1
		1		1			
Sample				USCS	Donth		COMMENTS
Type	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-3"- Moist, loose, brown, topsoil, roots. 3-48"- Moist, dense, medium brown,	
MC		48"	0	SM		medium to fine SAND, trace coarse sand.	
					1		
					2		
					2		
					3		
					Λ		
					4		
					5	0-60"- Wet dense medium brown medium to fine SAND some coarse sand	-
MC		60"	0	SM	5		
					6		
					7		
					8		
					0		
					9		
					10	0-3"- Wet loose brown fine to coarse SAND transitioning to fine to coarse	Sample takan at 14'
MC		54"	0	ML.	10	Gravel. 3-6"- Wet, stiff, brown, SILT and fine to coarse Sand, little fine gravel. 6-	Sample ID: 5-3-14
			0		11	24"- Wet, stiff, brown, SILT and fine Sand. 24-36"- Wet, stiff, brown, SILT, some	
						fine sand, trace clay. 36-52"-Wet, very stiff, brown-gray, CLAY and Silt, trace	
					12	fine sand. 52-54"- Wet, dense, brown, fine SAND and Silt.	
					13		
		-			1.4		
					14		
				<u> </u>	15	0-12"- Wet dense brown fine SAND some silt 12-24"- Wet stiff brown SILT	Samples taken at
MC		24"	0	SM-MI	1.5	some clay, some fine to coarse gravel. Refusal at 19ft.	18' and 19'
			2		16	· · · · ·	Sample ID: 5-3-18
							and 5-3-19
					17		
					18		
					10		
					19		
				<u> </u>	20	End of Boring	4
					20		
	SAMPLI	NG METHO	DD	•	•	COMMENTS:	<u>.</u>
	MC=Macroo	core					

						PARSONS	BORING/ Page 1 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 5 Boring 4
Driller:	Chris	Aldrich					Location Description:
Oversight	: Alliso	on Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geop	robe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	-		Location
Apparent ]	Borehole I	DTW:		3	ft bls		Plan
Measured	Water Le	vel:		NA	ft bls	Date/Time Start: August 13, 2014	
Total Dept	th of Bori	ng:		22	ft bls	Date/Time Finish: August 13, 2014	1
Additional	Commen	its:					1
				•			
				1	1		COMMENTS
Sample				USCS	Depth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-4"- Moist, loose, dark brown, topsoil, roots. 4-16"- Moist, dense, brown,	
MC		54"	0	SM		medium to fine SAND, trace silt. 16-18"- Moist, dense, brown-gray, medium to	
					1	fine SAND, trace silt, 18-54"- Wet, dense, brown, medium to fine SAND, trace	
					2		
				<b> </b>			
					3		
					4		
			_	-	5		-
140		201	0		5	0-30" - Wet, dense, medium-dark brown, medium to fine SAND, trace coarse	
MC		30	0	SM	6		
					0		
					7	•	
					'		
					8		
					0		
					9		
					10	0-18"- Wet, dense, medium brown, fine to coarse SAND transitioning to silt and	Sample taken at 14'
MC		60"	0	ML		fine to coarse gravel. 18-48"- Wet, very stiff, brown, SILT, some clay, trace fine	Sample ID: 5-4-14
				1	11	sand. 48-60"- Wet, stiff, brown, SILT, some fine sand, trace clay.	L
					12		
					13		
					14		
				<u> </u>	4 -		4
					15	0-18"- Wet, stiff, brown, SILT and fine Sand. 18-60"- Wet, styiff, brown, SILT,	Samples taken at
MC		60"	0	ML	17	some time sand, trace time to coarse gravel.	18' and 20'
					16		Sample IDs: 5-4
				+	17		and 5-4-20
					1/		
					18		
					10		
				1	19		
				1	20		1
	SAMPLI	NG METHO	<u></u>			COMMENTS:	
	MC=Macroo	core					
					=		

						PARSONS	BORING/ Page 2 of 2
Contracto	or: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 5 Boring 4
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	robe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS			Location
Apparent	Borehole I	DTW:		3	ft bls	Date/Time Starts Assess 12, 2014	Plan
Total Den	th of Bori	vel:		22	ft bls	Date/Time Start: August 13, 2014	
Additional	Commen	ts:		22	11 015	Date, Thite Thishi, rugust 15, 2014	
							COMMENTS
Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					20	0-18"- Wet, loose, gray, weathered shale.	
MC		18"	0	GM	21		
					21		
					22		
					23		
					20		
					24		
					25	End of Boring	
					26		
					26		
					26		
					28		
					29		
					30		
					31		
					20		
					32		
					33		
					34		
					35		
					36		
					37		
					29		
					58		
					39		
					40		
	SAMPLI MC=Macros	NG METHO	<u>)D</u>			COMMENTS:	
					-		

						PARSONS	BORING/ Page 1 of 1
Contracto	r: Stone	Environmen	tal			DRILLING RECORD	WELL NO. Transect 5 Boring 5
Driller:	Chris	Aldrich			-		Location Description:
Oversight	: Alliso	n Jordan			-	PROJECT NAME: Griffiss B817	South of B817
Rig Type:	Geopi	obe			-	PROJECT Location: Rome, NY	
	GROUN	DWATER O	BSERVA	TIONS	1		Location
Apparent l	Borehole I	DTW:		5	ft bls		Plan
Measured	Water Lev	vel:		NA	ft bls	Date/Time Start: August 13, 2014	-
Total Dep	th of Boru	ıg:		19	ft bls	Date/Time Finish: August 13, 2014	-
Additional	Commen	ts:					
				-	1		
Sample				USCS	Denth		COMMENTS
Туре	SPT	Recovery	PID	Symbol	(ft bls)	FIELD IDENTIFICATION OF MATERIAL	
					0	0-8"- Moist, loose, dark brown, topsoil, roots. 8-26"- Moist, dense, medium	
MC		42"	0	SM		brown, medium to fine SAND.	
					1		
					2		
				+	3		
					5		
					4	•	
					5	0-50"- Wet, dense, medium brown, medium to fine SAND, trace silt. 50-54"-	Sample taken at 9'
MC		54"	0	SM		Wet, stiff, brown, SILT and fine Sand.	Sample ID: 5-5-9
					6		
					-		
					7		
					0		
					0		
					9		
					10	0-4"- Wet, stiff, brown, SILT and fine Sand. 4-36"- Wet, very stiff, brown, SILT,	Sample taken at 13'
MC		60"	0	ML		some clay, little fine sand. 36-60"- Wet, stiff, brown, SILT and fine Sand, trace	Sample ID: 5-5-13
					11	clay	
					10		
					12		
					13		
					15		
					14		
					15	0-24"- Wet, stiff, brown, SILT, and fine Sand, little fine to coarse gravel. 24-36"-	Sample taken at 18'
MC		48"	0	ML-GM		Wet, dense, brown, medium to fine SAND, some weathered shale. 36-48"- Wet,	Sample ID: 5-5-18
					16	ioose, gray, weathered shale.	
					17		
					1/		
					18		
					10		
				1	19	+	
					20	End of Boring	]
	SAMPLI	NG METHO	<u>)D</u>			COMMENTS:	
	MC=Macroo	core					
					-		

## APPENDIX B LABORATORY DATA
# Final Data Report for Laboratory Services

PREPARED FOR: PARSONS ENGINEERING SCIENCE, INC.

SITE ID: GRIFFIS AFB, ROME, NY

Stone Project ID: 14-152



### DATES OF PERFORMANCE: August 11-15, 2014 (SDG-1) REPORT DATE: August 27, 2014



#### Prepared for:

John Lanier, Parsons Engineering Science, Inc. 40 La Riviere Drive, Suite 350

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STONE ENVIRONMENTAL INC

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LABORATORY ANALYTICAL RESULTS	21



# STONE ENVIRONMENTAL, INC. LABORATORY

# NARRATIVE

August 27, 2014

This data package presents the analytical results for soil and water samples analyzed by Stone Environmental, Inc. Laboratory (Stone Mobilab Unit #2) at Griffis AFB in Rome, NY on August 11-15, 2014. A total of 106 soil samples and 22 water samples from 8 boring locations are reported in this sample delivery group (SDG-1). Two sets of matrix spike and matrix spike duplicate analyses were analyzed for the soil matrix (samples 4-6-19 and 2.5-4-18) and one set for the water samples (2.5-5 (10-13).

The soil samples in this SDG were collected and preserved in 10 mLs methanol by Parsons' personnel between August 11-15, 2014 at the Griffis AFB in Rome, NY and water samples were collected in unpreserved 40 mL VOA vials. Samples were hand delivered to the onsite laboratory immediately after collection; therefore, receipt temperatures were not measured. Soil samples were stored in a freezer in the laboratory before and after analysis. Water samples were stored in the refrigerator (<6°C) before and after analysis.

Stone's Sample Login Sheet and a summary of samples logged into Stone's Laboratory Information Management System (LIMS) are included in the Sample Login Summary Section of this report. A summary of soil sample weights is also included in this section. All soil sample results are reported in units of  $\mu g/kg$  on a wet weight (i.e., as received) basis. Groundwater sample results are reported in units of  $\mu g/L$ .

Samples were analyzed by EPA SW846 Method 8260C (gas chromatography / mass spectrometry (GC/MS)) set in selective ion monitoring (SIM) mode for 5 target volatile organic compounds (VOCs) in accordance with Stone's Standard Operating Procedure (SOP) SEI-10.15.11, "The Determination of Volatile Organic Compounds By GC/MS (SW846 USEPA Method 8260C)". Stone's Method 8260C (GC/MS) is provided under the National Environmental Laboratory Accreditation Program (NELAP) fields of testing, for which Stone holds NELAP accreditation for soil and waters in the State of NY. The analytical results associated with the samples presented in this report were generated under a quality system that adheres to requirements specified in the NELAP standards. All QA/QC results associated

### STONE ENVIRONMENTAL INC

with these data were found to be within the tolerances set forth in SOP SEI-10.15.11 and NELAP standards with the exceptions noted below:

- In the analytical sequence on 8/14/2014, samples 2.5-4-18MS/MSD, 2.5-5-15, 2.5-18, 2.5-4-14 exhibited a signal response depression around the elution of vinyl chloride. After this, the filament required replacement and the sequence was ended. Samples were not reanalyzed per the request of the client since all other results were acceptable and the presence of vinyl chloride was not likely. In addition, the MS/MSD sample recovery of vinyl chloride was acceptable suggesting that, although there was a depression of the signal, detection of vinyl chloride was acceptable. Sample results for vinyl chloride were qualified with a "Q" to indicate the signal depression in the affected samples noted above.
- Initial calibration (ICAL) Deficiencies:
  - No deficiencies.
- Continuing Calibration Verification (VSTD) Sample Deficiencies:
  - For samples analyzed on 8/13/2014, recovery of vinyl chloride was slightly above the limit at 28%D rather than 20%. Vinyl chloride was not detected in any samples in the sequence; therefore, no data were qualified.
- Laboratory Control Sample (LCS) Deficiencies:
  - No deficiencies.
- Volatile Method Blank (VBLK) Deficiencies:
  - No deficiencies.
- MS/MSD Sample Deficiencies:
  - Results were acceptable and met 70-130% recovery.
- BFB Tune Deficiencies:
  - No deficiencies.
- Internal Standard (IS) and Surrogate Standard (SS) Deficiencies:
  - No deficiencies

When applicable, the final results were annotated with the following codes:

- U The analyte was analyzed for, but was not detected above the reported quantitation limit.
- J The analyte was positively identified; the associated numerical value is between the MDL and RL and is, therefore, an estimated concentration of the analyte in the sample.
- Q The value is estimated due to one or more quality control failures for that compound.
- B Indicates the analyte was found in the associated laboratory blank as well as the sample.
- E Estimated value, marginally above the calibration levels.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Kim B. Watson Signature: _

Kim Watson, Quality Assurance Manager, Stone Environmental, Inc.

SAMPLE LOGIN SUMMARY

STONE ENVIRONMENTAL INC

#### 14-152: Parsons, Rome, NY Sample Login Summary SDG-1

Lab ID	Pct	I a casti a u ID	Dauth	D.d turking	Comula Norra	Comula Code	0	Collected	Collected	Collected	Collection	Received	Received	Received	Received	Durana mandalara	Lab ID Dawant	<b>6</b>
Lab ID	Moisture	Location ID	Depth	watrix	Sample Name	Sample Code	Quantity	Ву	Date	Time	Method	Ву	Date	Time	Temp	Preservative	Lab ID_Parent	Comments
SEI-1	0	1-1	010.00	Soil	1-1-10	Normal Sample	1	AJ	8/11/2014	9:00 AM	Grab	MJM	8/11/2014	9:35 AM	N/A	MeOH		
SEI-2	0	1-1	017.00	Soil	1-1-17	Normal Sample	1	AJ	8/11/2014	9:18 AM	Grab	MJM	8/11/2014	9:35 AM	N/A	MeOH		
SEI-3	0	1-2	017.00	Soil	1-2-17	Normal Sample	1	AJ	8/11/2014	10:10 AM	Grab	MJM	8/11/2014	10:43 AM	N/A	MeOH		
SEI-4	0	1-3	016.00	Soil	1-3-16	Normal Sample	1	AJ	8/11/2014	10:30 AM	Grab	MJM	8/11/2014	10:43 AM	N/A	MeOH		
SEI-5	0	1-4	015.00	Soil	1-4-15	Normal Sample	1	AJ	8/11/2014	10:55 AM	Grab	MJM	8/11/2014	11:31 AM	N/A	MeOH		
SEI-6	0	1-4	016.00	Soil	1-4-16	Normal Sample	1	AJ	8/11/2014	10:55 AM	Grab	MJM	8/11/2014	11:31 AM	N/A	MeOH		
SEI-7	0	1-5	015.00	Soil	1-5-15	Normal Sample	1	AJ	8/11/2014	11:45 AM	Grab	MJM	8/11/2014	12:45 PM	N/A	MeOH		
SEI-8	0	1-5	016.00	Soil	1-5-16	Normal Sample	1	AJ	8/11/2014	11:45 AM	Grab	MJM	8/11/2014	12:45 PM	N/A	MeOH		
SEI-9	0	1-6	010.00	Soil	1-6-10	Normal Sample	1	AJ	8/11/2014	1:10 PM	Grab	MJM	8/11/2014	1:35 PM	N/A	MeOH		
SEI-10	0	1-6	016.00	Soil	1-6-16	Normal Sample	1	AJ	8/11/2014	1:20 PM	Grab	MJM	8/11/2014	1:35 PM	N/A	MeOH		
SEI-11	0	2-5	020.00	Soil	2-5-20	Normal Sample	1	AJ	8/11/2014	3:10 PM	Grab	MJM	8/11/2014	3:12 PM	N/A	MeOH		
SEI-12	0	2-5	018.00	Soil	2-5-18	Normal Sample	1	AJ	8/11/2014	2:40 PM	Grab	MJM	8/11/2014	3:12 PM	N/A	MeOH		
SEI-13	0	2-6	017.00	Soil	2-6-17	Normal Sample	1	AJ	8/11/2014	2:10 PM	Grab	MJM	8/11/2014	3:12 PM	N/A	MeOH		
SEI-14	0	2-5	016.00	Soil	2-5-16	Normal Sample	1	AJ	8/11/2014	2:40 PM	Grab	MJM	8/11/2014	3:12 PM	N/A	MeOH		
SEI-15	0	2-4	018.00	Soil	2-4-18	Normal Sample	2	AJ	8/11/2014	3:37 PM	Grab	MJM	8/11/2014	3:45 PM	N/A	MeOH		
SEI-16	0	2-4	017.00	Soil	2-4-17	Normal Sample	2	AJ	8/11/2014	3:36 PM	Grab	MJM	8/11/2014	3:45 PM	N/A	MeOH		
SEI-17	0	2-4	016.00	Soil	2-4-16	Normal Sample	1	AJ	8/11/2014	3:35 PM	Grab	MJM	8/11/2014	3:45 PM	N/A	MeOH		
SEI-18	0	2-3	018.00	Soil	2-3-18	Normal Sample	1	AJ	8/11/2014	4:20 PM	Grab	MJM	8/11/2014	4:29 PM	N/A	MeOH		
SEI-19	0	2-3	017.00	Soil	2-3-17	Normal Sample	1	AJ	8/11/2014	4:20 PM	Grab	MJM	8/11/2014	4:29 PM	N/A	MeOH		
SEI-20	0	2-3	016.00	Soil	2-3-16	Normal Sample	1	AJ	8/11/2014	4:20 PM	Grab	MJM	8/11/2014	4:30 PM	N/A	MeOH		
SEI-21	0	2-2	017.00	Soil	2-2-17	Normal Sample	1	AJ	8/11/2014	5:05 PM	Grab	MJM	8/11/2014	5:20 PM	N/A	MeOH		
SEI-22	0	2-2	014.00	Soil	2-2-14	Normal Sample	1	AJ	8/11/2014	5:05 PM	Grab	MJM	8/11/2014	5:20 PM	N/A	MeOH		
SEI-23	0	2-1	020.00	Soil	2-1-20	Normal Sample	1	AJ	8/12/2014	8:30 AM	Grab	MJM	8/12/2014	9:00 AM	N/A	MeOH		
SEI-24	0	2-1	017.00	Soil	2-1-17	Normal Sample	1	AJ	8/12/2014	8:25 AM	Grab	MJM	8/12/2014	9:00 AM	N/A	MeOH		
SEI-25	0	2-1	014.00	Soil	2-1-14	Normal Sample	1	AJ	8/12/2014	8:20 AM	Grab	MJM	8/12/2014	9:00 AM	N/A	MeOH		
SEI-26	0	3-1	015.00	Soil	3-1-15	Normal Sample	1	AJ	8/12/2014	8:50 AM	Grab	MJM	8/12/2014	10:00 AM	N/A	MeOH		
SEI-27	0	3-1	018.00	Soil	3-1-18	Normal Sample	1	AJ	8/12/2014	9:10 AM	Grab	MJM	8/12/2014	10:00 AM	N/A	MeOH		
SEI-28	0	3-2	016.00	Soil	3-2-16	Normal Sample	1	AJ	8/12/2014	9:35 AM	Grab	MJM	8/12/2014	10:00 AM	N/A	MeOH		
SEI-29	0	3-2	019.00	Soil	3-2-19	Normal Sample	1	AJ	8/12/2014	9:36 AM	Grab	MJM	8/12/2014	10:00 AM	N/A	MeOH		
SEI-30	0	3-3	016.00	Soil	3-3-16	Normal Sample	1	AJ	8/12/2014	10:15 AM	Grab	MJM	8/12/2014	10:25 AM	N/A	MeOH		
SEI-31	0	3-3	019.00	Soil	3-3-19	Normal Sample	1	AJ	8/12/2014	10:15 AM	Grab	MJM	8/12/2014	10:25 AM	N/A	MeOH		
SEI-32	0	3-4	016.00	Soil	3-4-16	Normal Sample	1	AJ	8/12/2014	11:00 AM	Grab	MJM	8/12/2014	11:06 AM	N/A	MeOH		
SEI-33	0	3-4	019.00	Soil	3-4-19	Normal Sample	1	AJ	8/12/2014	11:00 AM	Grab	MJM	8/12/2014	11:06 AM	N/A	MeOH		
SEI-34	0	3-6	014.00	Soil	3-6-14	Normal Sample	2	AJ	8/12/2014	11:40 AM	Grab	MJM	8/12/2014	12:00 PM	N/A	MeOH		
SEI-35	0	3-6	018.00	Soil	3-6-18	Normal Sample	1	AJ	8/12/2014	11:50 AM	Grab	MJM	8/12/2014	12:00 PM	N/A	MeOH		
SEI-36	0	3-5	015.00	Soil	3-5-15	Normal Sample	1	AJ	8/12/2014	11:17 AM	Grab	MJM	8/12/2014	12:00 PM	N/A	MeOH		
SEI-37	0	3-5	016.00	Soil	3-5-16	Normal Sample	1	AJ	8/12/2014	11:20 AM	Grab	MJM	8/12/2014	12:00 PM	N/A	MeOH		
SEI-38	0	3-5	020.00	Soil	3-5-20	Normal Sample	1	AJ	8/12/2014	11:23 AM	Grab	MJM	8/12/2014	12:00 PM	N/A	MeOH		
SEI-39	0	4-6	014.00	SOIL	4-6-14	Normal Sample	1	AJ	8/12/2014	1:00 PM	Grab	MJM	8/12/2014	2:20 PM	N/A	MeOH		
SEI-40	0	4-6	019.00	SOIL	4-6-19	Normal Sample	1	AJ	8/12/2014	1:02 PM	Grab	MJM	8/12/2014	2:20 PM	N/A	MeOH	4.6.40	
SEI-40-IVIS	0	4-6	019.00	SOIL	4-6-19-IVIS	Matrix Spike	1	AJ	8/12/2014	1:02 PM	Grab		8/12/2014	2:20 PIVI	N/A	MeOH	4-6-19	
SEI-40-IVISD	0	4-6	019.00	Soll	4-6-19-IVISD	Natrix Spike Duplicate	1	AJ	8/12/2014	1:02 PIVI	Grab		8/12/2014	2:20 PIVI	N/A	MeOH	4-6-19	
SEI-43	0	4-5 4 F	016.00	Soll	4-5-16	Normal Sample	1	AJ	8/12/2014	1:20 PIVI	Grab		8/12/2014	2:20 PIVI	N/A	MeOH		
SEI-44	0	4-5	020.00	Soll	4-5-20	Normal Sample	1	AJ	8/12/2014	1:25 PIVI	Grab		8/12/2014	2:20 PIVI	N/A	MeOH		
SEI-45	0	4-4	015.00	Soil	4-4-15	Normal Sample	1		8/12/2014	2:00 PIVI 2:10 DM	Grab		0/12/2014	2:20 PIVI	N/A	MoOH		
SEI-40	0	4-4	018.00	Soil	4-4-10	Normal Sample	1	AJ	8/12/2014	2.10 PM	Grab		8/12/2014	2.20 PIVI		MeOH		
SEI-47	0	4-5	015.00	Soil	4-3-13	Normal Sample	1		8/12/2014	2:10 PIVI 2:E0 DM	Grab		0/12/2014	2:20 PM	N/A	MoOH		
SEI-40	0	4-5	016.00	Soil	4-3-16	Normal Sample	1	AJ	8/12/2014	2.30 FIV	Grab		8/12/2014	3.30 PIVI		MeOH		
SEI-49	0	4-2	018.00	Soil	4-2-10	Normal Sample	1		8/12/2014	2:15 PIVI	Grab		0/12/2014	2:20 PM	N/A	MoOH		
SEI-50	0	4-2 4-1	018.00	Soil	4-2-10	Normal Sample	1	AJ	8/12/2014	3.13 FIV	Grab	MIM	8/12/2014	3.30 PIVI	N/A	MeOH		
SEI-51	0	4-1	014.00	Soil	4-1-14	Normal Sample	1		8/12/2014	3:35 PM	Grab	MIM	8/12/2014	3.30 PW		MeOH		
SEI-52	0	 5-1	014.00	Soil	5-1-14	Normal Sample	1	ΔΙ	8/12/2014	4.20 PM	Grah	MIM	8/12/2014	5.45 PM	N/A	MeOH		
SEI-53	0	5-1	019.00	Soil	5-1-19	Normal Sample	1	ΔΙ	8/12/2014	4.20 PW	Grah	MIM	8/12/2014	5.45 PIVI	Ν/Δ	MeOH		
SEI-54	0	5-1 5-2	014.00	Soil	5-2-14	Normal Sample	1	ΔΙ	8/12/2014	4.30 FIVI	Grah	MIM	8/12/2014	5.45 PM	N/A	MeOH		
SEI-56	0	5-2	019.00	Soil	5-2-19	Normal Sample	1	AI	8/12/2014	4.55 DM	Grab	MIM	8/12/2014	5.45 PM	N/A	MeOH		
SEI-57	0	5-3	014.00	Soil	5-3-14	Normal Sample	1	AJ	8/12/2014	5:10 PM	Grab	MIM	8/12/2014	5:45 PM	N/A	MeOH		
SEI-58	1 0	5-3	018.00	Soil	5-3-18	Normal Sample	1	AI	8/12/2014	5:30 PM	Grah	MIM	8/12/2014	5.45 PM	N/A	MeOH		
SEI-59	0	5-3	019.00	Soil	5-3-19	Normal Sample	1	AJ	8/12/2014	5:35 PM	Grab	MIM	8/12/2014	5:45 PM	N/A	MeOH		
SEI-60	0	2-7	017.00	Soil	2-7-17	Normal Sample	1	AJ	8/13/2014	9:20 AM	Grab	MIM	8/13/2014	10:43 AM	N/A	MeOH		
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#### 14-152: Parsons, Rome, NY Sample Login Summary SDG-1

Lah ID	Pct		Donth	Matrix	Comula Nomo	Comula Cada	Quantitu	Collected	Collected	Collected	Collection	Received	Received	Received	Received	Dressmusting		Commonto
Lab ID	Moisture	Location ID	Deptil	IVIALITX	Sample Name	Sample Coue	Quantity	Ву	Date	Time	Method	Ву	Date	Time	Temp	Freservative	Lab ID_Parent	comments
SEI-61	0	2-7	019.00	Soil	2-7-19	Normal Sample	1	AJ	8/13/2014	9:25 AM	Grab	MJM	8/13/2014	10:43 AM	N/A	MeOH		
SEI-62	0	3-7	011.00	Soil	3-7-11	Normal Sample	1	AJ	8/13/2014	9:55 AM	Grab	MJM	8/13/2014	10:43 AM	N/A	MeOH		
SEI-63	0	3-7	014.00	Soil	3-7-14	Normal Sample	1	AJ	8/13/2014	9:57 AM	Grab	MJM	8/13/2014	10:43 AM	N/A	MeOH		
SEI-64	0	3-7	019.00	Soil	3-7-19	Normal Sample	1	AJ	8/13/2014	10:20 AM	Grab	MJM	8/13/2014	10:43 AM	N/A	MeOH		
SEI-65	0	1-7	015.00	Soil	1-7-15	Normal Sample	1	AJ	8/13/2014	10:47 AM	Grab	MJM	8/13/2014	12:00 PM	N/A	MeOH		
SEI-66	0	1-7	017.00	Soil	1-7-17	Normal Sample	1	AJ	8/13/2014	10:53 AM	Grab	MJM	8/13/2014	12:00 PM	N/A	MeOH		
SEI-67	0	1-2	016.00	Soil	1-2-16	Normal Sample	1	AJ	8/13/2014	11:05 AM	Grab	MJM	8/13/2014	12:00 PM	N/A	MeOH		
SEI-68	0	1-2	017.01	Soil	1-2-17D	Normal Sample	1	AJ	8/13/2014	11:06 AM	Grab	MJM	8/13/2014	12:00 PM	N/A	MeOH		
SEI-69	0	1-2	019.00	Soil	1-2-19	Normal Sample	1	AJ	8/13/2014	11:07 AM	Grab	MJM	8/13/2014	12:00 PM	N/A	MeOH		
SEI-70	0	1-2	010.00	GW	1-2(10-13)	Normal Sample	2	AJ	8/13/2014	1:11 PM	Grab	MJM	8/13/2014	1:30 PM	N/A			
SEI-71	0	1-2	013.50	GW	1-2(13.5-16.5)	Normal Sample	2	AJ	8/13/2014	1:07 PM	Grab	MJM	8/13/2014	1:30 PM	N/A			
SEI-72	0	1-2	016.50	GW	1-2(16.5-18)	Normal Sample	2	AJ	8/13/2014	1:55 PM	Grab	MJM	8/13/2014	2:15 PM	N/A			
SEI-73	0	1-5	010.00	GW	1-5(10-13)	Normal Sample	2	AJ	8/13/2014	2:05 PM	Grab	MJM	8/13/2014	2:15 PM	N/A			
SEI-74	0	1-5	013.50	GW	1-5(13.5-16.5)	Normal Sample	2	AJ	8/13/2014	2:42 PM	Grab	MJM	8/13/2014	3:30 PM	N/A			
SEI-75	0	1-5	017.00	GW	1-5(17-20)	Normal Sample	2	AJ	8/13/2014	3:13 PM	Grab	MJM	8/13/2014	3:30 PM	N/A			
SEI-76	0	5-4	014.00	Soil	5-4-14	Normal Sample	1	AJ	8/13/2014	3:47 PM	Grab	MJM	8/13/2014	4:30 PM	N/A	MeOH		
SEI-77	0	5-4	018.00	Soil	5-4-18	Normal Sample	1	AJ	8/13/2014	3:51 PM	Grab	MJM	8/13/2014	4:30 PM	N/A	MeOH		
SEI-78	0	5-4	020.00	Soil	5-4-20	Normal Sample	1	AJ	8/13/2014	4:00 PM	Grab	MJM	8/13/2014	4:30 PM	N/A	MeOH		
SEI-79	0	5-5	009.00	Soil	5-5-09	Normal Sample	1	AJ	8/13/2014	4:10 PM	Grab	MJM	8/13/2014	4:30 PM	N/A	MeOH		
SEI-80	0	5-5	013.00	Soil	5-5-13	Normal Sample	1	AJ	8/13/2014	4:20 PM	Grab	MJM	8/13/2014	4:30 PM	N/A	MeOH		
SEI-81	0	5-5	018.00	Soil	5-5-18	Normal Sample	1	AJ	8/13/2014	4:25 PM	Grab	MJM	8/13/2014	4:30 PM	N/A	MeOH		
SEI-82	0	1-8	014.00	Soil	1-8-14	Normal Sample	1	AJ	8/14/2014	8:30 AM	Grab	MJM	8/14/2014	10:45 AM	N/A	MeOH		
SEI-83	0	1-8	016.00	Soil	1-8-16	Normal Sample	1	AJ	8/14/2014	8:45 AM	Grab	MJM	8/14/2014	10:45 AM	N/A	MeOH		
SEI-84	0	2.5-6	014.00	Soil	2.5-6-14	Normal Sample	1	AJ	8/14/2014	9:10 AM	Grab	MJM	8/14/2014	10:45 AM	N/A	MeOH		
SEI-85	0	2.5-6	018.00	Soil	2.5-6-18	Normal Sample	1	AJ	8/14/2014	9:20 AM	Grab	MJM	8/14/2014	10:45 AM	N/A	MeOH		
SEI-86	0	2.5-5	015.00	Soil	2.5-5-15	Normal Sample	1	AJ	8/14/2014	9:55 AM	Grab	MJM	8/14/2014	10:45 AM	N/A	MeOH		
SEI-87	0	2.5-5	018.00	Soil	2.5-5-18	Normal Sample	2	AJ	8/14/2014	10:05 AM	Grab	MJM	8/14/2014	10:45 AM	N/A	MeOH		
SEI-88	0	2.5-4	014.00	Soil	2.5-4-14	Normal Sample	1	AJ	8/14/2014	10:30 AM	Grab	MJM	8/14/2014	10:45 AM	N/A	MeOH		
SEI-89	0	2.5-4	018.00	Soil	2.5-4-18	Normal Sample	1	AJ	8/14/2014	10:38 AM	Grab	MJM	8/14/2014	10:45 AM	N/A	MeOH		
SEI-89-MS	0	2.5-4	018.00	Soil	2.5-4-18-MS	Matrix Spike	1	AJ	8/14/2014	10:38 AM	Grab	MJM	8/14/2014	10:45 AM	N/A	MeOH	2.5-4-18	
SEI-89-MSD	0	2.5-4	018.00	Soil	2.5-4-18-MSD	Matrix Spike Duplicate	1	AJ	8/14/2014	10:38 AM	Grab	MJM	8/14/2014	10:45 AM	N/A	MeOH	2.5-4-18	
SEI-92	0	2.5-3	015.00	Soil	2.5-3-15	Normal Sample	1	AJ	8/14/2014	11:13 AM	Grab	MJM	8/14/2014	12:30 PM	N/A	MeOH		
SEI-93	0	2.5-3	019.00	Soil	2.5-3-19	Normal Sample	1	AJ	8/14/2014	11:30 AM	Grab	MJM	8/14/2014	12:30 PM	N/A	MeOH		
SEI-94	0	2.5-2	018.00	Soil	2.5-2-18	Normal Sample	1	AJ	8/14/2014	12:05 PM	Grab	MJM	8/14/2014	12:30 PM	N/A	MeOH		
SEI-95	0	2.5-2	020.00	SOIL	2.5-2-20	Normal Sample	1	AJ	8/14/2014	12:10 PM	Grab	MJM	8/14/2014	12:30 PM	N/A	MeOH		
SEI-96	0	2.5-1	005.00	Soil	2.5-1-05	Normal Sample	1	AJ	8/14/2014	12:40 PM	Grab	MJM	8/14/2014	2:00 PM	N/A	MeOH		
SEI-97	0	2.5-1	010.00	5011	2.5-1-10	Normal Sample	1	AJ	8/14/2014	12:50 PM	Grab		8/14/2014	2:00 PIVI	N/A	MeOH		
SEI-98	0	2.5-1	015.00	Soll	2.5-1-15	Normal Sample	1	AJ	8/14/2014	1:00 PM	Grab		8/14/2014	2:00 PM	N/A	MeOH		
SEI-99	0	2.5-1	019.00	5011	2.5-1-19	Normal Sample	1	AJ	8/14/2014	1:15 PM	Grab		8/14/2014	2:00 PIVI	N/A	MeOH		
SEI-100	0	5-0	005.00	Soll	5-0-05	Normal Sample	1	AJ	8/14/2014	1:28 PIVI	Grab		8/14/2014	2:00 PIVI	N/A	MeOH		
SEI-101	0	5-0	010.00	Soll	5-0-10	Normal Sample	1	AJ	8/14/2014	1:34 PIVI	Grab		8/14/2014	2:00 PIVI	N/A	MeOH		
SEI-102	0	5-0	013.00	Soil	5-0-15	Normal Sample	1		8/14/2014	1.40 PIVI	Grab		8/14/2014	2:00 PIVI	N/A	MoOH		
SEI-103	0	J=0 1_7	020.00	GW	1-7 (10-12)	Normal Sample	2	AJ	8/14/2014	2:45 DM	Grab		8/14/2014	2.00 PIVI	N/A	MECH		
SEI-104	0	1-7	013 50	GW	1-7 (13 5-16 5)	Normal Sample	2		8/14/2014	3.43 F M	Grab		8/14/2014	5:00 PM				
SEI-105	0	5-3	010.00	GW	5-3 (10-13)	Normal Sample	2	ΔI	8/14/2014	2.28 PM	Grab	MIM	8/14/2014	5:00 PM	N/A			
SEI-107	0	5.3	013 50	GW	5-3 (13 5-16 5)	Normal Sample	2	AI	8/14/2014	2:20 F M	Grab	NAINA	8/14/2014	5:00 PM	N/A			
SEI-107	0	5-3	017.00	GW	5-3 (17-19)	Normal Sample	2	Δ1	8/14/2014	3:10 PM	Grab	MIM	8/14/2014	5:00 PM	Ν/Δ			
SEI-109	0	мн	000.01	GW	MH-2	Normal Sample	2	IB	8/14/2014	5:15 PM	Grab	мім	8/14/2014	5.30 PM	N/A			
SEI-110	0	1-9	010.00	Soil	1-9-10	Normal Sample	1	AI	8/14/2014	4.37 PM	Grab	MIM	8/14/2014	5.30 PM	N/A	MeOH		
SEI-111	0	1-9	012.00	Soil	1-9-12	Normal Sample	1	AJ	8/14/2014	4:40 PM	Grab	MIM	8/14/2014	5:30 PM	N/A	MeOH		
SEI-112	0	1-9	014.00	Soil	1-9-14	Normal Sample	1	AJ	8/14/2014	4:42 PM	Grab	MIM	8/14/2014	5:30 PM	, N/А	MeOH		
SEI-113	0	0-7	009.00	Soil	0-7-09	Normal Sample	1	AJ	8/14/2014	5:00 PM	Grab	MJM	8/14/2014	5:30 PM	, N/A	MeOH		
SEI-114	0	0-7	015.00	Soil	0-7-15	Normal Sample	1	AJ	8/14/2014	5:15 PM	Grab	MJM	8/14/2014	5:30 PM	N/A	MeOH		
SEI-115	0	0-7	017.00	Soil	0-7-17	Normal Sample	1	AJ	8/14/2014	5:17 PM	Grab	MJM	8/14/2014	5:30 PM	, N/A	MeOH		
SEI-116	0	1-7	017.50	GW	1-7 (17.5-19.5)	Normal Sample	2	AJ	8/14/2014	4:15 PM	Grab	MJM	8/14/2014	5:30 PM	N/A			
SEI-117	0	2.5-5	010.00	GW	2.5-5 (10-13)	Normal Sample	2	AJ	8/15/2014	8:53 AM	Grab	MJM	8/15/2014	9:45 AM	N/A		SEI-117	
SEI-118	0	2.5-5	013.50	GW	2.5-5 (13.5-16.5)	Normal Sample	2	AJ	8/15/2014	9:10 AM	Grab	MJM	8/15/2014	9:45 AM	N/A			
SEI-119	0	2.5-5	017.00	GW	2.5-5 (17-20)	Normal Sample	2	AJ	8/15/2014	9:45 AM	Grab	MJM	8/15/2014	10:00 AM	N/A			
SEI-120	0	4-4	010.00	GW	4-4 (10-13)	Normal Sample	2	AJ	8/15/2014	10:35 AM	Grab	MJM	8/15/2014	11:00 AM	N/A			

## 14-152: Parsons, Rome, NY Sample Login Summary SDG-1

Lab ID	Pct	Location ID	Depth	Matrix	Sample Name	Sample Code	Quantity	Collected	Collected	Collected	Collection	Received	Received	Received	Received	Preservative	Lab ID Parent	Comments
	Moisture		•		•	•		Ву	Date	Time	Method	Ву	Date	Time	Temp		-	
SEI-121	0	4-4	013.50	GW	4-4 (13.5-16.5)	Normal Sample	2	AJ	8/15/2014	10:37 AM	Grab	MJM	8/15/2014	11:00 AM	N/A			
SEI-122	0	4-4	017.00	GW	4-4 (17-20)	Normal Sample	2	AJ	8/15/2014	11:12 AM	Grab	MJM	8/15/2014	11:30 AM	N/A			
SEI-117-MS	0	2.5-5	010.00	GW	2.5-5 (10-13)-MS	Matrix Spike	2	MJM	8/15/2014	11:53 AM	Grab	MJM	8/15/2014	11:53 AM	N/A		2.5-5 (10-13)	
SEI-117-MSD	0	2.5-5	010.00	GW	2.5-5 (10-13)-MSD	Matrix Spike Duplicate	2	MJM	8/15/2014	11:53 AM	Grab	MJM	8/15/2014	11:53 AM	N/A		2.5-5 (10-13)	
SEI-125	0	1-10	005.00	Soil	1-10-05	Normal Sample	1	AJ	8/15/2014	11:32 AM	Grab	MJM	8/15/2014	12:00 PM	N/A	MeOH		
SEI-126	0	1-10	010.00	Soil	1-10-10	Normal Sample	1	AJ	8/15/2014	11:37 AM	Grab	MJM	8/15/2014	12:00 PM	N/A	MeOH		
SEI-127	0	1-10	015.00	Soil	1-10-15	Normal Sample	1	AJ	8/15/2014	11:45 AM	Grab	MJM	8/15/2014	12:00 PM	N/A	MeOH		
SEI-128	0	1-10	005.01	GW	1-10 (5-8)	Normal Sample	2	AJ	8/15/2014	12:17 PM	Grab	MJM	8/15/2014	12:30 PM	N/A			
SEI-129	0	1-10	010.01	GW	1-10 (10-13)	Normal Sample	2	AJ	8/15/2014	12:15 PM	Grab	MJM	8/15/2014	12:30 PM	N/A			
SEI-130	0	1-10	008.00	GW	1-10 (8-10)	Normal Sample	2	AJ	8/15/2014	12:45 PM	Grab	MJM	8/15/2014	12:50 PM	N/A			
SEI-131	0	2-8	005.00	Soil	2-8-05	Normal Sample	1	AJ	8/15/2014	1:30 PM	Grab	MJM	8/15/2014	1:45 PM	N/A	MeOH		
SEI-132	0	2-8	010.00	Soil	2-8-10	Normal Sample	1	AJ	8/15/2014	1:30 PM	Grab	MJM	8/15/2014	1:45 PM	N/A	MeOH		
SEI-133	0	2-8	015.00	Soil	2-8-15	Normal Sample	1	JL	8/15/2014	1:30 PM	Grab	MJM	8/15/2014	1:45 PM	N/A	MeOH		
SEI-134	0	2-8	020.00	Soil	2-8-20	Normal Sample	1	JL	8/15/2014	1:30 PM	Grab	MJM	8/15/2014	1:45 PM	N/A	MeOH		

Date     Time     ***     Comments       Date     Time     ***     ***       B/U/14     Oq355     Z     Z     1       B/U/14     Oq355     Z     Z     1       Container***     ***     ***       B/U/14     Oq355     Z     Z     1       Container***     ***     ***     ***       B/U/14     Oq355     Z     Z     1       Container***     **     5E1-C     184     - 4G.up       IO-43     Z     Z     Y     5E1-C     184     - 4G.up       IO-43     Z     Z     Y     5E1-C     184     - 4G.up       II     I     Z     Z     Y     5E1-C     188     - 4G.up       II     Z     Z     Z     Y     5E1-C     188     - 4G.3       II     Z     Z     Z     Y     5E1-C     188     - 4G.3       II     Z     Z     Z     Z     SE1-Z     188     - 4G.3       II     Z     Z     Z     Z     Z     SE1-G     140       I     Z     Z     Z     Z     Z     SE1-G     141-G       I     Z <td< th=""><th>FO FO</th></td<>	FO FO
Date     Time     7 Type*     Connents       Bate     Time     Type*     Valibition       Skin/I/H     0935     2     2     1     3     Valibition       Skin/I/H     0935     2     2     1     3     Valibition       Skin/I/H     0935     2     2     1     3     Valibition       Iou43     7     5     1     3     Valibition       Iou43     2     1     3     V     5     1       Iou43     2     1     3     5     1     2       Isit     1     2     1     3     5     1       Isit     2     1     3     5     1     3       Isit     2     1     3     5     1     3       Isit     3     5     5     1 <td></td>	
Date     Time     Pype     Comments       B/II/14     C9355     2     2     1     3     V     561-1     Mini ID/Final W(g)       B/II/14     C9355     2     2     1     3     V     561-2     184     - 415.14       C9355     2     2     1     3     V     561-2     184     - 415.14       1043     2     7     3     V     561-2     184     - 415.44       1131     2     2     1     3     V     561-3     185     - 414.68       1131     2     2     1     3     V     561-4     186     - 415.36       1131     2     2     1     3     V     561-4     186     - 415.36       1131     2     2     1     3     V     561-4     186     - 415.36       1131     2     2     1     3     V     561-4     186     - 415.36       1131     2     2     1     3     V     561-4     186     - 415.36       1131     2     2     1     3     V     561-4     186     - 415.36       1335     2     1     3     V     561-4	cordance with SOP: 3. A Groundwater APRO Testing.
$8/11/14$ $0935$ $2$ $1$ $3$ $\sqrt{5}E_1-1$ $MM$ $B3$ $-45.16$ $1043$ $2$ $1$ $3$ $\sqrt{5}E_1-2$ $184$ $-46.14$ $1043$ $2$ $1$ $3$ $5$ $5E_1-4$ $186$ $-47.84$ $1043$ $2$ $1$ $3$ $5$ $5E_1-5$ $188$ $-4536$ $1131$ $2$ $2$ $1$ $3$ $5E_1-6$ $188$ $-4536$ $11351$ $2$ $1$ $3$ $5E_1-16$ $199$ $-46.41$ $1335$ $2$ $1$ $3$ $5E_1-16$ $199$ $-45.61$ $15152$ $2$ $1$ $3$ $5E_1-16$ $196$ $-46.41$ $15162$	Time By
C935 $2$ $1$ $5$ $6$ $131$ $2$ $1$ $3$ $5$ $131$ $131$ $131$ $2$ $1$ $31$ $561-3$ $185$ $47149$ $1043$ $2$ $1$ $3$ $-7$ $561-3$ $185$ $-4738$ $1043$ $2$ $1$ $3$ $-7$ $561-4$ $186$ $-4738$ $1131$ $2$ $2$ $1$ $3$ $-7$ $561-4$ $186$ $-4738$ $1131$ $2$ $2$ $1$ $3$ $-7$ $561-4$ $186$ $-4534$ $1131$ $2$ $2$ $1$ $3$ $-7$ $561-4$ $186$ $-4534$ $1131$ $2$ $2$ $1$ $3$ $-7$ $561-4$ $196$ $-46.4$ $1335$ $2$ $1$ $3$ $-7$ $561-4$ $197$ $-46.4$ $1335$ $2$ $1$ $3$ $-7$ $561-4$ $197$ $-46.4$ $1535$ $2$ $1$ <t< td=""><td>OPEC MIN</td></t<>	OPEC MIN
043 $(2, 1, 3)$ $(51, 3)$ $(51, 3)$ $ 155 - 47, 94$ $ 131$ $2$ $2$ $1$ $3$ $(51, 3)$ $(51, 3)$ $(138) - 4438$ $ 131$ $2$ $2$ $1$ $3$ $(51, 3)$ $(51, -43, 26)$ $ 131$ $2$ $2$ $1$ $3$ $(51, -5)$ $185 - 4736$ $ 131$ $2$ $2$ $1$ $3$ $(51, -5)$ $185 - 4536$ $ 1335$ $2$ $3$ $ 551-3$ $186 - 47.36$ $ 1335$ $2$ $13$ $ 551-16$ $196 - 47.36$ $ 1335$ $2$ $13$ $ 551-16$ $196 - 47.36$ $ 1512$ $2$ $1$ $3$ $ 551-16$ $196 - 47.36$ $ 1512$ $2$ $1$ $3$ $ 551-16$ $196 - 47.36$ $ 1512$ $2$ $1$ $3$ $ 551-16$ $196 - 47.36$ $ 1512$ $2$ $1$ $3$ $ 551-16$ $197 - 45.27$ $ 1512$	0918
1043     2     1     3     -     5     5     -     16     -     47.84       1131     2     2     1     3     -     5     5     18     -     44.85       1131     2     2     1     3     -     5     5     18     -     45.30       1131     2     2     1     3     -     5     5     18     -     45.30       1131     2     2     1     3     -     5     5     16     16     -       1131     2     2     1     3     -     5     5     16     16     -       1335     2     2     1     3     -     5     5     5     5       1335     2     1     3     -     5     5     5     5       1335     2     1     3     -     5     5     5     5       1335     2     1     3     -     5     5     5     5       1512     2     1     3     -     5     5     5       1512     2     1     3     -     5     5     5       151	1010
1131       2       2       1       3       -       561-5       183       - 4436         1131       2       2       1       3       -       561-6       188       - 4536         1245       2       2       1       3       -       561-3       189       -4536         1245       2       2       1       3       -       561-3       189       -4536         1245       2       2       1       3       -       561-3       189       -4536         1335       2       2       1       3       -       561-13       199       -46.49         1512       2       1       3       -       561-14       193       -45.4         1512       2       1       3       -       561-14       193       -45.4         1512       2       1       3       -       561-14       193       -45.4         1512       2       1       3       -       561-14       193       193       -45.4         1512       2       1       3       -       561-14       193       193       193       193       193	1030
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-152 - Pars	n: 50			Lab ID	SE1-21	5E1-22	SE1-23.	5E1-24	SE1-25	561-26	£2-135	SE1-29	561-29	551-30	5E1-31	5E1-32	SE1-33	5E1-34	5E1-35	5E1-36	5E1-37	SE 1-38	SE1-39	SELHO	STONE ENV	
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WPLE L(	:	Collected	Sampling in accordan. Method / SEI SOP; SEI 10,5.a Grov Profiling and KPRO 1	Date T	El HIVIA	8/11/14 1	B/IZ/14 O	Õ	Õ	0	0		0						=	-		-		> ¹	r (2) soil (2) bottle (7	Sheet,doc Mobile Lab 1 is
- SA				By	AJ .	AJ a	A]	Ð	F	H.	R	B	A5	AS	£	R	Æ	F.	Ĥ	Ð	E!	Ŧ	E.	Ð	<ul><li>(1) wate</li><li>(1) bag</li></ul>	– Sample Log
<u>Mobile Lab 2</u>				Sample ID	t1-2-2	17/-2-7	2-1-20	£1-1-2	5-1-14	3-1-15	3-1-10	3-2-6	3-2-19	5-5-16	5-5-19	5-4-16	5-4-10	3-6-14	3-6-18	2-2-15	5-5-16	5-5-20	4-6-14	H-6-14	Lype of Jampie ** Container:	L:\RASC\Analytica\\Forms\Moblie Lab 2

Page 12 of 65

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	<u>Mobile Lab 2</u>	- SAMPLE	TOG SI	HEET				, I.	Project Project	ID:	1-156 Parse	e NP	
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$4^{-}6^{-}16^{-}$ MS $8/17/14$ $147c^{-}2$ $2^{-}2^{-}-5$ $\times$ $8c_{140}$ -ms $112c^{-}2c^{-}-183$ $2222-1833$ $4^{-}5^{-}-16^{-}$ R $8/10/14$ $132c^{-}$ $1147c^{-}2c^{-}2^{-}c^{-}3$ $\times$ $8c_{1-11}c^{-}12c^{-}1833$ $4^{-}5^{-}2c^{-}$ R $8/10/14$ $32c^{-}$ $1147c^{-}2c^{-}2^{-}c^{-}1^{-}3$ $\times$ $8c_{1-11}c^{-}12c^{-}1833$ $4^{-}5^{-}2c^{-}$ I $112c^{-}2c^{-}2^{-}c^{-}1^{-}3$ $\times$ $8c_{1-11}c^{-}12c^{-}1833$ $222-1833$ $4^{-}5^{-}2c^{-}$ I $112c^{-}2c^{-}2^{-}c^{-}1^{-}3$ $\times$ $8c_{1-11}c^{-}2c^{-}1833$ $112c^{-}2c^{-}2^{-}c^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}3^{-}1^{-}1^{-}1^{-}1^{-}1^{-}1^{-}1^{-}1$	Sample ID	By Date	Time	By Date	Time	Type*	Number	Preserv	d MT2A b∍îìiboM	8260	Lab Lab U D S Vlan A S Vlan A	Comm Vial ID / Fir	ents al Wt(g)
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U-Z-IL       IS1G       IS3G       Z       Z       I       S       S       SEL-40       Z37 - 473G         U-Z-IL       IS1G       IS1G       IS3G       IS3G       Z       Z       Z       S       SEL-SD       Z34 - 48,R         U-Z-IL       IS3G       IS3G       IS3G       Z       Z       Z       S       SEL-SD       Z34 - 48,R         U-J-I-IL       IS3G       IS3G       Z       Z       Z       S       SEL-SD       Z34 - 48,R         U-J-I-B       IS3G       IS3G       Z       Z       Z       S       SEL-S1       Z34 - 48,R         G-J-I-G       I       I/Z       Z       Z       Z       S       SEL-S2       Z35 - 48,R         S-J-I-G       I       I/Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z <th< td=""><td>4-3-18</td><td></td><td>1450</td><td></td><td>1530</td><td>22</td><td>-</td><td>m</td><td></td><td>X</td><td>5E1-48</td><td>233 ~</td><td>47,54</td></th<>	4-3-18		1450		1530	22	-	m		X	5E1-48	233 ~	47,54
U- Z-18       ISIN       ISS       Z       Z       Z       Z       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       <	91-2-11		1515		1536	2	2	3		X	5E1-49	. 422	UNT H
$H - I - I \cdot I$ $I \leq 3c_{1}$ $I \leq 3c_{2}$ $I \leq 3c_{2}$ $I \leq 3c_{3}$ $I < 3c_{3}$	81-2-h		1515		1536	22	-	$\sim$		X	SE1-30	236~	H7,98
$[1-1-16]$ $[535]$ $[6cb]$ $[2, 1, 5]$ $\approx$ $6E1-52$ $235-47.65$ $5-1-1/q$ $[1/2b]$ $1745$ $1745$ $221$ $3$ $\approx$ $5E1-53$ $225-47.65$ $5-1-1/q$ $[1/45]$ $1745$ $1745$ $221$ $3$ $\approx$ $5E1-55$ $227-48.65$ $5-2-14$ $1/662$ $1745$ $1745$ $1745$ $21$ $3$ $\times$ $5E1-55$ $227-46.65$ $5-2-14$ $1760$ $1745$ $21$ $3$ $\times$ $5E1-55$ $227-47.66$ $5-2-14$ $1760$ $1745$ $2$ $1345$ $2$ $1$ $3$ $\times$ $5E1-55$ $237-47.24$ $5-2-14$ $1760$ $1745$ $2$ $1$ $3$ $\times$ $5E1-56$ $235-47.24$ $5-2-14$ $1775$ $1745$ $2$ $1$ $3$ $\times$ $5E1-56$ $237-47.24$ $5-2-14$ $1736$ $1746$ $2$ $1$ $3$ $\times$ $5E1-56$ $237-47.24$ $5-2-16$ $1746$ $1$	4-1-14		1530		1530	2		$\sim$		X	SE1-51	234 -	48.19
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1-1-18		1535		1600	2	-	Ч		Χ	SE1-52	235-	47.69
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5-2- 4  $ 1/45 $ $ 74 5 $ $ 74 5 $ $ 74 5 $ $ 74 5 $ $ 74 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 $ $ 20 5 5 $ $ 20 5 5 5 2 5 $ $ 20 5 5 2 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 $	5-1-19		1630		SHEI	2	-	m		X	SE1-54	226 -	218,13
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	5-2-14		2471		SHEI	2 2	-	3		X	SE1-55	-622	49,65
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	5-2-19		1655		Shti	2		3		X	SE1-56.	230-	16.91
$5-3-16$ $173d$ $173d$ $1745$ $2$ $2$ $1$ $3$ $\times$ $5E1-58$ $2.59-47.21$ $7-3-17$ $W$ $1745$ $2$ $2$ $1$ $3$ $\times$ $5E1-59$ $2.37-42.24$ $7-3-17$ $W$ $8/13/14$ $C92c$ $M3M$ $8/13/14$ $1643$ $2$ $2$ $1$ $3$ $\times$ $5E1-6c$ $V$ $245-46.53$ $*Type of Sample: (1) water (2) soil(1) water (2) soil(3) other************5E1-6cV245-46.53**Container: (1) big(2) bothe(1) cie(3) other***************************Container: (1) big(2) bothe(3) otherM(1) cie(2) HCI(3) OtherMeCM**************Container: (1) big(2) bothe(3) otherMMM/5M/5M**********Container: (1) big(2) botheMMM/5M/5MM***********Container: (1) big(2) botheMMM/5M/5MMMMMM**Container: (1) big(2) botheMMMMMMMMMMMMMMMMMMMMMMMMMM<$	5-3-14		1710		1745	2 2		m		X	SE1-57	231	46.08
$\frac{7-3-19}{2-7-17} \frac{1}{10} \frac$	5-3-18		1730		SHE!	2 2	-	$\sim$		X	SE1-38	239-	12.54
Z - F - 1 F       M       B/13/14       C9ZO       M3M       B/13/14       1C43       Z       Z       1       3       X       SE1-GO       Y       245 - 46.53         * Type of Sample:       (1) water       (2) soil       (3) other       *** Preservation:       (1) ice       (2) HCI       (3) Other       **** Preservation:       (1) ice       (2) HCI       (3) Other       ****       ***       ****       ****       ****       ****       ****       *****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       ****       *****       ****       ***** <t< td=""><td>5-3-19</td><td><b>)</b></td><td>(735</td><td>シッ</td><td>1745</td><td>7</td><td></td><td>3</td><td></td><td>X</td><td>5E1-54</td><td>232-</td><td>H.24</td></t<>	5-3-19	<b>)</b>	(735	シッ	1745	7		3		X	5E1-54	232-	H.24
* Type of Sample: (1) water (2) soil ** Container: (1) bag (2) bottle (3) other <u>M</u> *** Preservation: (1) ice (2) HCI (3) Other <u>MECH</u> <b>Stone ENVIRONMENTALINC</b> ** Container: (1) bag (2) bottle (3) other <u>M</u> *** Preservation: (1) ice (2) HCI (3) Other <u>MECH</u> <b>Stone ENVIRONMENTALINC</b> LARASCAMANJYCaNTANDOBIE Lab 2 - Sample Log Sheet doc Mobile Lab 1 is VIN# IUK500C29V102699 Mobile Lab 2 - Sample Log Sheet doc Truck 2 is VIN# Truck 2 is VIN# IUK500F2541047129 C.RormsMobile Lab 2 - Sample Log Sheet doc Truck 2 is VIN# PW6CEJIG7SL002457 <u>A MS/MSD</u> Pair <b>Created as Per MDR</b> by Prepping Soil Somple in edited in other view of the second of the Mechine and Manual Soil Somple in edited in other view and Manual Soil Somple in edited in the second of the Manual Solution of the second of the Mechine and Manual Soil Somple in edited in the second of the Manual Solution of the second of the Manual Solution of the second of the Manual Solution of the second of the Manual Solution of the second of the Manual Solution of Solution of the Manual Solution of the Solution of the Manual Solution of the Solution of the Manual Solution of the Manual Solution of the Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution of the Manual Solution	F1-t-2	AJ 8/13/14	0260	H141/8/18 MCH	5421	2 2	-	3		x	SE1-60 1	1 245 -	46.53
Likas Crandycial FormsWoblic Lab 2 - Sample Log Sheer doc Mobile Lab 1 is VIN# IUK 300529 V 102699 Mobil Lab 2 is VIN# IUK 300529104729 C.FormsWoblic Lab 2 - Sample Log Sheer doc Truck 2 is VIN# JW6CE 11 G7SL00297 MS/MSD Pair Created as per MDR Page 2 Z	* Type of Sample: ** Container:	(1) water (2) soil (1) bag (2) bott	le (3) other	*** Pres	ervation: (1) ice (	2) HCI (3	) Other	Mec	ž	-	STONE ENVI	RONMENTA	L INC
A MS/MSJ pair cuant specific vieles affection and by propping soil sample in extraction and in a	L:\RASC\Analytica\\Forms\Moblie Lab. C:\RASC\Analytica\\Forms\Moblie Lab.	2 - Sample Log Sheetdoo Mo	bile Lab L is VIN# 1UK:	500G29V1022699 Mobil L	ab 2 is VIN# 1UK500F254	047129			1 dest	240	er MDR	Page	et
by propping soil somple in short be extraction and					MS/SM K	1 (c)	1		5	14	traction up		4
					by Pref	≥ prig	õ	Noc.	ple	\$	Deior to exter	no voitor	

Mobile Lab 2	S	AMPLE	<b>LOG S</b>	HE	ET					Projec	t ID:		4-152-	Carl and	SUCAS	GAFB
		1								Proje	ct Lot	ation	: Kc	SME	1N	
		Collect	ed		Receive	pa					Analys	is				*
		Sampling in a Method / SEI D SEI 10. Profiling and	ccordance with SOP: 5. <i>n</i> Groundwater KPRO Testing.				***		***	8051/801≥ ≥50 %				×		
Sample ID	By	Date	Time	By	Date	Time	Type*			B bailiboM	8560	Оנhег	Lab ID	Analyst	Con Vial FD/	Dr Or Final Wr(o)
61-t-2	R	B/13/14	0925	MM	8/13/14	1043	N	N			$\left  \right\rangle$		561-61	WEN	244	- 46.00
3-7-11	~	3	0935			1043	2	2	~		$\left  \right\rangle$		561-62	2	E h2	- 45.61
3-7-12(	_		F290			1043	2	2		N	X		SE1-63,	-	242	- 48,64
3-7-19	_		1020			5001	2 2	-		m	Χ		5E1-64		1 h2	- 49.23
1-7-15	_		thal		- T	1200	22		13		X.		SE1-65		- 012	-47.59
+1·t-1	-		1053	_		1206	22		1		X		SE1-66		- 152	72.7h
1-2-16			1105			1200	2	-	141		X		5E1-67		.052	48,44
C+1-2-1			1106			1206	2 2		M		X		SE168	-	248-	46.17
61-2-1			107			1200	2 2	-			X		261-69		249-	17,28
1-2 (10-13)			(31)			1330	~	22			X		SE 1-70	-	18 th	hijci
1-2(13.5-16.5)	_		1307			1330	2	2	1		X		SEI-71	-		-
1-2(65-18)	_		1355			1415	2	2			$\lambda$		561-72			
1-5(10-13)			1405			1415	· 2	2	ł		X		SE1-73			
1-5 (13.5-16.5)			14/12			1530	1 2		- 1		X		HE-135	1		
(02-6)5-1	+		(513			1530	2 1	2	1		λ		55-135			
5-4-14			1547	_		1630	2	2	8		$\lambda$		5E1-76		253-	46.03
5-4-18			1551			1630	22	-			X		55-77		254-	46.70
5-4-20			1600			1630	22	-	8		X		SE1-78		755.	17.54
5-5-9	3	->	1610	<b>→</b>	->	1630	22	-	<b>W</b> )	-	X		SELTA	>	252-	45,94
5-5-13	B	Blizing	1620	N	8/13/14	1630	2	-	M	1	X		561-80	WEW	247.	UT.OS
° 1 ype of Sample: ** Container:	(1) w (1) ba	ater (2) soil 1g (2) bottle	(3) other	1	*** Preservat	tion: (1) ice (2)	HCI (3	) Other	NUCH	2		Ŵ١.	STONE EN	VIRC	L N H N N O	AL INC
L:\RASC\Analytical\Forms\MoblieLab 2 - C\Dormo\Mathcal\Forms\MoblieLab 2	Sample	Log Sheet.doc Mobii	le Lab 1 is VIN# 1UK50	0G29V102	.2699 Mobil Lab 2 is	VIN# 1UK500F25410;	7129								Page	4

Date       Time       ***       Comments         S/3//u(1045       Z       Z       1       S       X       SE1-82       Main Value       On         S/3//u(1045       Z       Z       1       S       X       SE1-82       MM 263-46.14       Ontext         S/3//u(1045       Z       Z       1       S       X       SE1-82       MM 263-46.16       Ontext         IO445       Z       Z       1       S       X       SE1-82       MM 263-416.06       Ontext         IO445       Z       Z       1       S       X       SE1-83       M 263-416.06       Ontext         IO445       Z       Z       1       S       X       SE1-83       M 263-416.06       Ontext         IO445       Z       Z       1       S       X       SE1-83       M 263-416.06       Ontext         IO445       Z       Z       1       S       X       SE1-83       M 263-416.06       Ontext         IO445       Z       Z       1       S       X       SE1-83       Z63-416.05       Z64-417.17         IO445       Z       Z       Z       Z       Z       Z64-417.13	
ES/[3]/IV       IG30       Z       Z       I       SEI-BL       NM       ZUL       -US. II.         V       EN/IH/IN       IOHS       Z       Z       I       SEI-BL       NM       ZGS-       II.I.         V       EN/IH/IN       IOHS       Z       Z       I       SEI-BL       NM       ZGS-       II.I.         IOHS       Z       Z       Z       Z       Z       ZGS-       II.I.         IOHS       Z       Z       Z       Z       ZGS-       ZGS- <thzgs-< th="">       ZGS-       <thzgs-< th=""> <t< td=""><td>Method / SEI SOP:           D         SEI 10.5,n Groundwater           Profiling and KPRO Testing.         D           D         Time</td></t<></thzgs-<></thzgs-<>	Method / SEI SOP:           D         SEI 10.5,n Groundwater           Profiling and KPRO Testing.         D           D         Time
↓ ©/H/III        OH5       7       1       3       ×       561-82       MM<263-       47.93          OH5       7       7       1       3       ×       561-83       1675-       1646          OH5       7       7       1       3       ×       561-83       1675-       46.06          OH5       7       7       1       3       ×       561-83       1675-       46.06          OH5       2       7       3       ×       561-83       1675-       46.06          OH5       2       2       1       3       ×       561-83       160-453.16          OH5       2       1       3       ×       561-83       160-53.16          OH5       2       1       3       ×       561-83       160-53.16          OH5       2       1       3       ×       561-83       160-53.16          OH5       2       1       3       ×       561-83       160-43.13          OH5       2       1       3       ×       561-83       160-43.13          DH5       1       3       ×       561-83       174-63       146.65	B/13/14 1625 M
1045       7       1       3       ×       561-83       42 - 46.48         1045       7       1       3       ×       561-84       257 - 48.02         1045       7       1       3       ×       561-84       257 - 48.02         1045       2       1       3       ×       561-84       257 - 49.83         1045       2       1       3       ×       561-84       261 - 47.18         1045       2       1       3       ×       561-84       261 - 47.18         1045       2       1       3       ×       561-84       256 - 47.18         1045       2       1       3       ×       561-84       256 - 47.18         1045       2       1       3       ×       561-86       156 - 47.18         1045       2       1       3       ×       561-86       156 - 47.18         1045       2       1       3       ×       561-86       156 - 47.18         1230       1       3       ×       561-86       156 - 47.18         1230       1       3       ×       561-97       166.2         1230       1	8/4/14 0830 M
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ICHS       Z       I       3       X       5EI-86 $Z6I - 473I$ IOHS       Z       Z       I       3       X       5EI-86 $Z6I - 473I$ IOHS       Z       Z       I       3       X       5EI-86 $Z5S - 497A$ IOHS       Z       Z       I       3       X       5EI-86 $Z5S - 47AA$ IOHS       Z       Z       I       3       X       5EI-86 $Z5S - 47AA$ IOHS       Z       Z       I       3       X       5EI-86 $Z5S - 47AA$ IOHS       Z       Z       I       3       X       5EI-86 $Z5S - 47AA$ IOHS       Z       Z       I       3       X       5EI-86 $Z5S - 47AA$ IOHS       Z       Z       I       3       X       5EI-86 $Z5S - 47AA$ IDHS       Z       Z       I       3       X       5EI-86 $Z6L - 47AA$ I230       Z       Z       I       3       X       5EI-86 $Z6L - 47AA$ I230       Z       Z       I       3       X       5EI-94	0260
ICHS $2$ $1$ $3$ $\times$ $561-68$ $760 - 53.LS$ IDUES $2$ $1$ $3$ $\times$ $561-88$ $755 - 4G_3N$ IDUES $2$ $1$ $3$ $\times$ $561-86$ $755 - 4G_3N$ IDUE $2$ $2$ $3$ $\times$ $561-86$ $755 - 4G_3N$ IDUE $2$ $2$ $3$ $\times$ $561-96$ $755 - 4T_3A$ IDUE $2$ $2$ $3$ $\times$ $561-96$ $756 - 4T_3A$ IDUE $2$ $2$ $3$ $\times$ $561-96$ $256 - 4T_3A$ IDUE $2$ $2$ $3$ $\times$ $561-96$ $272 - 4T_3A$ IDUE $2$ $1$ $3$ $\times$ $561-96$ $272 - 4T_3A$ IDUE $2$ $1$ $3$ $\times$ $561-96$ $272 - 4T_3A$ IDUE $1$ $1$ $3$ $\times$ $561-96$ $272 - 4T_3A$ IDUE $1$ $1$ $3$ $\times$ $561-96$ $272 - 4T_3A$ <	0935
IDJE       Z       I       3       X       561-86       755-147.D         ID45       Z       Z       3       X       561-84       156-417.D         ID45       Z       Z       3       X       561-84       156-417.D         ID45       Z       Z       3       X       561-84       156-417.D         ID45       Z       Z       Z       S       X       561-94       156-417.D         ID45       Z       Z       Z       Z       S       X       561-97       156-417.D         ID45       Z       Z       Z       Z       S       X       561-97       156-417.D         ID50       Z       Z       Z       Z       S       X       561-92       171-92.D         ID50       Z       Z       Z       Z       Z       S61-96       Z       272-46.D         ID50       Z       Z       Z       Z       Z       S61-96       Z       272-46.D         ID50       Z       Z       Z       Z       S61-96       Z       272-46.D         ID50       Z       Z       Z       Z       Z       S61-96	1005
IOUS $2$ $1$ $3$ $\times$ $5E1$ - $Bq$ $7S6$ - $4T_{3}$ , $T_{3}$ $PUG$ $2$ $2$ $2$ $2$ $3$ $\times$ $5E1$ - $Bq$ $7S6$ - $4T_{3}$ , $T_{3}$ $PUG$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$	1030
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1230       2       7       3       ×       561-97       270-47.73         1230       2       2       1       3       ×       561-93       271 - 50.48         1230       2       2       1       3       ×       561-93       271 - 46.52         1230       2       2       1       3       ×       561-94       216 - 46.52         1230       1       2       1       3       ×       561-96       272 - 46.52         1250       1       2       1       3       ×       561-96       272 - 46.52         1460       2       2       1       3       ×       561-96       273 - 47.66         1400       2       2       1       3       ×       561-96       274 - 46.67         1400       2       2       1       3       ×       561-96       274 - 46.67         1400       2       2       1       3       ×       561-96       274 - 46.67         1400       2       2       1       3       ×       561-96       274 - 47.96         *** Presenation:       1400       2       2       1       3       ×	shoi "
1230       2       1       3       X       5E1-q3       271 $-\infty.48$ 1230       2       2       1       3       X       5E1-q3       271 $-46.52$ 1230       1       2       1       3       X       5E1-q4 $2(c - 46.52)$ 1230       1       1       3       X       5E1-q4 $2(c - 46.52)$ 1250       1       2       1       3       X       5E1-q4 $2(c - 46.52)$ 1460       2       2       1       3       X       5E1-q6 $27248.62$ 1460       2       2       1       3       X       5E1-q6 $274-46.66$ 1400       2       2       1       3       X       5E1-q6 $274-46.66$ 1400       2       2       1       3       X       5E1-q66 $274-47.66$ 1400       2       2       1       3       X       5E1-q66 $274-47.66$ 1400       2       2       1       3       X       5E1-q66 $274-47.66$ *** Preservation:       1400       2       2       1       <	1113
I230       I       2       I       3       X       SEI-q4 $ZG_{-}-46.5Z$ I250       1       2       1       3       X $SEI-q4$ $ZG_{-}-46.5Z$ I1400       2       2       1       3       X $SEI-q4$ $ZG_{-}-46.5Z$ I1400       2       2       1       3       X $SEI-q6$ $Z72_{-}-4B.67$ I1400       2       2       1       3       X $SEI-q6$ $Z74_{-}-46.67$ I1400       2       2       1       3       X $SEI-q6$ $Z74_{-}-46.67$ I1400       2       2       1       3       X $SEI-q6_{-}3$ $Z74_{-}46.66$ V       11400       2       2       1       3       X $SEI-q6_{-}3$ $Z75_{-}47.96$ *** Presenation: (1)ice       2       2       1       3 $X$ $SEI-q6_{-}3$ $Z75_{-}47.96$ *** Presenation: (1)ice       2       2       1       3 $X$ $SEI-q6_{-}3$ $Z75_{-}47.96$ **** Presenation: (1)ice       2       2       1       3 $X$ $S1-100$ <	1130
I2GO       I       I       SEI-9G       ZTL       HBG7         I14b0       Z       Z       I       SEI-9G       ZTL       HBG7         I14b0       Z       Z       I       SEI-9G       ZTL       HBG7         I14b0       Z       Z       I       SEI-9G       ZTL       HG64         I14b0       Z       Z       I       SEI-9G       ZTL       HG64         I14b0       Z       Z       I       SEI-9G       ZTL       HG66         I14b0       Z       Z       I       SEI-9G       ZTL       HG66         V       I14b0       Z       Z       I       SEI-9G       ZTL       HG66         V       V       I14b0       Z       Z       I       SEI-9G       ZTS-47,9G         V       V       V       SEI-9G       V       ZTS-47,9G       V         V       V       Z       Z       I       Z       ZTS-47,9G         *** Presenation:       (1) ice       (2) HC1       (3) Other MC0H       STONE ENVIRONMENTAL INC	1205
Ideo       2       2       1       3       X       5       4       6         1       1       1       2       2       1       3       X       5       6       2       3       7         1       1       1       2       2       1       3       X       5       6       2       1       4       6       6       7       1       4       6       6       6       6       7       1       1       6       6       7       7       1       6       6       7       7       1       1       6       6       7       7       1       1       6       6       7       7       1       1       6       6       1       7       1       1       6       6       1       1       1       1       6       6       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	1210
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0/12/10
1400     2     1     3     ×     5E1-98     2741+46.63       √     11400     2     2     1     3     ×     5E1-98     275-43,98       √     014/44     1400     2     2     1     3     ×     5E1-98     ×     275-43,98       *** Preservation:     (1) ice     2     2     1     3     ×     551-98     17.66	0521
↓     1460     2     1     3     ×     5EL989     ×     275-47.98       ◆     0     1     1400     2     2     1     3     ×     5E/-100     MM*268-47.66       ***     Preservation:     (1) ice     (2) HCI     (3) Other     Media     §     STONE     ENVIRONMENTAL INC	1300
	V [315]
*** Preservation: (1) ice (2) HCl (3) Other 1404	81414 1328 M
	water (2) soil bag (2) bottle (3) other

O @ Kend, g/19/2014

Truck 2 is VIN# JW6CEJ1G7SL002457

Celebred Storms Mobile Lab 2 - Sample Log Sheerdoc Celebred Store - Ahris Ahris Poors - Ahris

s WHEB .			(	Comments Or Vial ID / Final Wt(g)	267-46.81	265 - 46.65	th'th - 692							282-46.54	279-46.95	281 - 46.67	24.F4- 485	120 -48.32	278-50,21						ONMENTAL INC	Page 6 7
152 Parson				Lab ID Analyst	SE1-101-1914	SE1-102	SE1-103	101-135	5E1-105	SE1-106	5E1-107	5E1-108	561-109	5E1-110	SE1-111	SELIZ	5E1-113	5E1-114	SELIIS	SE1-116	5E1-117	561-118	SEI-119	5E1-120 V	STONE ENVIR	
iect ID:  4-	Analysis		≤108/1708	Моdified 8260 Оther	Х	Х	X	X	$\boldsymbol{\lambda}$	X	x	×	X	X	X	$\boldsymbol{\chi}$	X	X	X	X	X	X	X	X	<b>V</b> //1	1
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H	Receive			Date	3/14/14															~	6/15/14			>	*** Preserv	22699 Mobil Lab 2
HEE				Rv	a min					-										$\Rightarrow$	LT L			>		500G29V102
LOG SI			rdance with )P: Groundwater 'RO Testing.	em:L	1334	1340	1356	1545	1550	M2B	1431	1510	1715	1637	1640	1642	auti	1715	(717	1/015	0853	0010	CH45	1035		(5) other
MPLE ]	Collected		Sampling in acco Method / SEI SC SEI 10.5 <i>n</i> Profiling and KF	<b>)</b>	/וח/ות															>	3/15/14			>	er (2) soil	(2) bottle g Sheet doc Mobi
-SAI				ć	41 Q	5 2<		-			>	B	R A	1 4	2					>	AS &			⇒	(1) wat	(1) bag – Sample Lo
<u>Mobile Lab 2 –</u>				CT 0		5-5-12	5-6-75	121-01/t-V	(2.752 EI/T-1	5-3(10-12)	5-2(135-165)	5-2(17-19)	HH J	1-0-10	1-9-17	-4-14	0-1-0	V-t-0	D-20	(5.91-5-1)t-1	2,5-5(10-12)	755 (125-165)	75-5 (17-70)	1-4 ( 10-13 )	* Type of Sample:	** Container: L:RASC\Analytical\Forms\Moblic Lab 2

Image: Second and a contance with Ordance with DP:     Received       DP:     PRO Testing:     PRO Testing:       PRO Testing:     By     Date       Time     By     Date     Time       In 2     MM     B/r5/rg     110			
ordance with DP: A Groundwater PRO Testing. PRO Testing. Time By Date Ti D37 MM 8/(5/14) 110	Analysis		
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1037 NW 8/15/14 110	Type* Type* Containet Number of 0 Preservati ATTA D65 ATTA D65 Andified 80 Modified 80 8260	Other Lab D D Choet	Comments Or Vial ID / Final Wt(g)
	X - Z 7 - 20	SELIZI MUM	
	130 1 2 2 - X	5E1-122 -	
1153 1153	153 1 2 0 - X	SE1-117-MS	
1153 11	153 1 2 0 - X	> CANHEIIT3S	
1132 120	200 7 2 1 3 X	SE1-125 2	77-451
1137 12	1200 2 2 1 3 X	SE1-126 Z	25-48,45
1142	1200 Z Z I 3 X	SE1-127 28	83-46,56
1213	1230 1 2 2 - X	5E1-128	
1215	1230 1 2 2 - X	5E1-129	
1245	1250 1 2 2 - ×	SE1-130	
1330	1345 2 2 1 3 X	5E1-131 2	28-43.23
1330	1345 2 2 1 3 ×	SE1-132 2	87 - 43.62
1330	1345 2 2 1 3 X	5E1-133 Z	266 - 43,53
1520 U U	1345 2 2 1 3 X	SE1-134 2	そし-45.27
*** Precentation	1) ice () HCl (3) Other <b>NeOH</b>		
(3) other			

### 14-152: Parsons Rome, NY - SDG-1 Sample Weight Summary

LabID	Location ID	Sample Name	Container ID	Depth	Initial Mass (g)	Final Vial Mass (g)	Final Sample Weight (g)
SEI-1	1-1	1-1-10	183-VOC	010.00	36.96	45.19	8.23
SEI-2	1-1	1-1-17	184-VOC	017.00	36.81	45.41	8.6
SEI-3	1-2	1-2-17	185-VOC	017.00	37.16	47.49	10.33
SEI-4	1-3	1-3-16	186-VOC	016.00	37.37	47.84	10.47
SEI-5	1-4	1-4-15	187-VOC	015.00	37.02	44.38	7.36
SEI-6	1-4	1-4-16	188-VOC	016.00	37.36	45.5	8.14
SEI-7	1-5	1-5-15	189-VOC	015.00	37.39	47.06	9.67
SEI-8	1-5	1-5-16	190-VOC	016.00	37.01	45.77	8.76
SEI-9	1-6	1-6-10	191-VOC	010.00	37.15	46.39	9.24
SEI-10	1-6	1-6-16	192-VOC	016.00	37.33	46.49	9.16
SEI-11	2-5	2-5-20	201-VOC	020.00	37.07	44.38	7.31
SEI-12	2-5	2-5-18	193-VOC	018.00	37.22	45.91	8.69
SEI-13	2-6	2-6-17	195-VOC	017.00	36.9	47.89	10.99
SEI-14	2-5	2-5-16	196-VOC	016.00	37.18	46.74	9.56
SEI-15	2-4	2-4-18	198-VOC	018.00	37.25	47.31	10.06
SEI-16	2-4	2-4-17	199-VOC	017.00	37.12	44.98	7.86
SEI-17	2-4	2-4-16	200-VOC	016.00	36.95	45.27	8.32
SEI-18	2-3	2-3-18	194-VOC	018.00	37.01	45.89	8 88
SEI-19	2-3	2-3-17	197-VOC	017.00	36.71	47.08	10 37
SEI-20	2-3	2-3-16	204-VOC	016.00	37.41	46.39	8 98
SEI-20	2.5	2-2-17	202-VOC	017.00	37.41	40.55	10.66
SEI-22	2_2	2-2-1/	202 100	014.00	36.8	47.72	8 54
SEI-22	2-2	2-2-14	203-VOC	014.00	37.26	43.34	6.73
SEI-23	2-1	2-1-20	207-000	017.00	37.20	43.99	10.65
SEI-24	2-1	2-1-17	200-000	017.00	27.21	47.02	10.03
SEI-25	2-1	2-1-14	209-000	014.00	37.21	47.23	10.02
SEI-20	3-1 2 1	2 1 10	200-000	015.00	37.25	47.80	10.01
SEI-27	3-1	3-1-18	205-000	018.00	37.23	47.74	10.51
SEI-28	3-2	3-2-10	210-VOC	016.00	37.19	48.25	11.00
SEI-29	3-2	3-2-19	211-VUC	019.00	37.07	48.09	11.02
SEI-30	3-3	3-3-10	212-VUC	016.00	37.19	47.32	10.13
SEI-31	3-3	3-3-19	213-VUC	019.00	36.84	47.88	11.04
SEI-32	3-4	3-4-16	214-VUC	016.00	37.2	49.69	12.49
SEI-33	3-4	3-4-19	226-VUC	019.00	37.35	42.64	5.29
SEI-34	3-6	3-6-14	218-VUC	014.00	37.14	48.47	11.33
SEI-35	3-6	3-6-18	220-VOC	018.00	36.81	47.05	10.24
SEI-36	3-5	3-5-15	216-VOC	015.00	37.23	47.88	10.65
SEI-37	3-5	3-5-16	215-VOC	016.00	37.28	49.24	11.96
SEI-38	3-5	3-5-20	217-VOC	020.00	37.13	46.56	9.43
SEI-39	4-6	4-6-14	219-VOC	014.00	36.56	47.01	10.45
SEI-40	4-6	4-6-19	221-VOC	019.00	37.09	48.94	11.85
SEI-40-MS	4-6	4-6-19-MS	221-VOC	019.00	37.09	48.94	11.85
SEI-40-MSD	4-6	4-6-19-MSD	221-VOC	019.00	37.09	48.94	11.85
SEI-43	4-5	4-5-16	222-VOC	016.00	37.19	48.33	11.14
SEI-44	4-5	4-5-20	223-VOC	020.00	37.03	49.13	12.1
SEI-45	4-4	4-4-15	224-VOC	015.00	37.04	48.33	11.29
SEI-46	4-4	4-4-18	225-VOC	018.00	37.32	48.1	10.78
SEI-47	4-3	4-3-15	238-VOC	015.00	37.22	49.58	12.36
SEI-48	4-3	4-3-18	233-VOC	018.00	37.03	47.54	10.51
SEI-49	4-2	4-2-16	237-VOC	016.00	37.09	47.1	10.01
SEI-50	4-2	4-2-18	236-VOC	018.00	37.49	47.98	10.49
SEI-51	4-1	4-1-14	234-VOC	014.00	37.51	48.19	10.68
SEI-52	4-1	4-1-18	235-VOC	018.00	37.42	47.69	10.27
SEI-53	5-1	5-1-14	227-VOC	014.00	37.1	48.7	11.6

### 14-152: Parsons Rome, NY - SDG-1 Sample Weight Summary

LahiD	Location	Sample Name	Container ID	Denth	Initial Mass	Final Vial Mass	Final Sample
Labib	ID	Sample Name	container ib	Deptil	(g)	(g)	Weight (g)
SEI-54	5-1	5-1-19	228-VOC	019.00	37.45	48.13	10.68
SEI-55	5-2	5-2-14	229-VOC	014.00	37.68	49.65	11.97
SEI-56	5-2	5-2-19	230-VOC	019.00	36.92	46.91	9.99
SEI-57	5-3	5-3-14	231-VOC	014.00	36.88	46.08	9.2
SEI-58	5-3	5-3-18	239-VOC	018.00	36.9	47.21	10.31
SEI-59	5-3	5-3-19	232-VOC	019.00	37.3	46.24	8.94
SEI-60	2-7	2-7-17	245-VOC	017.00	36.92	46.53	9.61
SEI-61	2-7	2-7-19	244-VOC	019.00	37.39	46	8.61
SEI-62	3-7	3-7-11	243-VOC	011.00	37.51	45.61	8.1
SEI-63	3-7	3-7-14	242-VOC	014.00	37.23	48.64	11.41
SEI-64	3-7	3-7-19	241-VOC	019.00	37.67	49.23	11.56
SEI-65	1-7	1-7-15	240-VOC	015.00	37.02	47.59	10.57
SEI-66	1-7	1-7-17	251-VOC	017.00	37.22	46.76	9.54
SEI-67	1-2	1-2-16	250-VOC	016.00	37.24	48.44	11.2
SEI-68	1-2	1-2-17D	248-VOC	017.01	37.1	46.17	9.07
SEI-69	1-2	1-2-19	249-VOC	019.00	37.16	47.28	10.12
SEI-76	5-4	5-4-14	253-VOC	014.00	37.03	46.03	9
SEI-77	5-4	5-4-18	254-VOC	018.00	37.1	46.7	9.6
SEI-78	5-4	5-4-20	255-VOC	020.00	37.07	47.21	10.14
SEI-79	5-5	5-5-09	252-VOC	009.00	37.11	45.94	8.83
SEI-80	5-5	5-5-13	247-VOC	013.00	36.87	47.03	10.16
SEI-81	5-5	5-5-18	246-VOC	018.00	37.6	48.14	10.54
SEI-82	1-8	1-8-14	263-VOC	014.00	37.48	47.93	10.45
SEI-83	1-8	1-8-16	262-VOC	016.00	37.53	46.68	9.15
SEI-84	2.5-6	2.5-6-14	257-VOC	014.00	37.22	48.02	10.8
SEI-85	2.5-6	2.5-6-18	259-VOC	018.00	37.3	49.83	12.53
SEI-86	2.5-5	2.5-5-15	261-VOC	015.00	36.96	47.91	10.95
SEI-87	2.5-5	2.5-5-18	260-VOC	018.00	37.36	53.65	16.29
SEI-88	2.5-4	2.5-4-14	258-VOC	014.00	36.94	49.7	12.76
SEI-89	2.5-4	2.5-4-18	256-VOC	018.00	37.31	47.17	9.86
SEI-89-MS	2.5-4	2.5-4-18-MS	256-VOC	018.00	37.31	47.17	9.86
SEI-89-MSD	2.5-4	2.5-4-18-MSD	256-VOC	018.00	37.31	47.17	9.86
SEI-92	2.5-3	2.5-3-15	270-VOC	015.00	37.46	47.73	10.27
SEI-93	2.5-3	2.5-3-19	271-VOC	019.00	37.41	50.48	13.07
SEI-94	2.5-2	2.5-2-18	266-VOC	018.00	36.68	46.82	10.14
SEI-95	2.5-2	2.5-2-20	272-VOC	020.00	36.99	48.67	11.68
SEI-96	2.5-1	2.5-1-05	273-VOC	005.00	37.37	44.61	7.24
SEI-97	2.5-1	2.5-1-10	264-VOC	010.00	37.59	46.97	9.38
SEI-98	2.5-1	2.5-1-15	274-VOC	015.00	37.27	46.62	9.35
SEI-99	2.5-1	2.5-1-19	275-VOC	019.00	37.5	47.98	10.48
SEI-100	5-0	5-0-05	268-VOC	005.00	37.22	47.66	10.44
SEI-101	5-0	5-0-10	267-VOC	010.00	37.34	46.81	9.47
SEI-102	5-0	5-0-13	265-VOC	013.00	37.43	46.65	9.22
SEI-103	5-0	5-0-20	269-VOC	020.00	37.4	47.47	10.07
SEI-110	1-9	1-9-10	282-VOC	010.00	36.83	46.54	9.71
SEI-111	1-9	1-9-12	279-VOC	012.00	37.33	46.95	9.62
SEI-112	1-9	1-9-14	281-VOC	014.00	36.89	46.67	9.78
SEI-113	0-7	0-7-09	284-VOC	009.00	37.45	47.42	9.97
SEI-114	0-7	0-7-15	280-VOC	015.00	37.41	48.32	10.91
SEI-115	0-7	0-7-17	278-VOC	017.00	37.39	50.21	12.82
SEI-125	1-10	1-10-05	277-VOC	005.00	37.4	45.17	7.77
SEI-126	1-10	1-10-10	285-VOC	010.00	37.46	48.45	10.99
SEI-127	1-10	1-10-15	283-VOC	015.00	36.76	46.56	9.8

### 14-152: Parsons Rome, NY - SDG-1 Sample Weight Summary

LabID	Location ID	Sample Name	Container ID	Depth	Initial Mass (g)	Final Vial Mass (g)	Final Sample Weight (g)
SEI-131	2-8	2-8-05	288-VOC	005.00	37.34	43.23	5.89
SEI-132	2-8	2-8-10	287-VOC	010.00	37.23	43.62	6.39
SEI-133	2-8	2-8-15	286-VOC	015.00	37.31	43.53	6.22
SEI-134	2-8	2-8-20	276-VOC	020.00	37.36	45.27	7.91

LABORATORY ANALYTICAL RESULTS

STONE ENVIRONMENTAL INC

Laboratory Unit:	ML2			
Client:	Parsons	Report Date:	8/22/2014	
Location:	Rome, NY	Date(s) Sampled:	08/14/2014 - 08/14/20	)14
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/14/2014 - 08/14/20	)14
SEI Project No .:	14-152	Test Method:	8260C	
Matrix:	Soil	Results Given as:	ug/kg	as dry weight
Location ID:	0-7	Prep Method:	Soils (SW), EPA 5038 Ground Waters (NPW	5A0H/ASTM D62520-00 /), ASTM D6520-00



Depth		009.00		015.00		017.00	
Sample Name	CAS #	0-7-09		0-7-15		0-7-17	
Analysis Date		08/14/14 22:25	Ν	08/14/14 22:42	Ν	08/14/14 23:00	Ν
Vinyl Chloride	75-01-4	80.2	U	73.3	U	62.4	U
trans-1,2-Dichloroethene	156-60-5	80.2	U	73.3	U	62.4	U
cis-1,2-Dichloroethene	156-59-2	80.2	U	73.3	U	62.4	U
Trichloroethene	79-01-6	39.3	J	117		62.4	U
Tetrachloroethene	127-18-4	80.2	U	73.3	U	62.4	U
Bromofluorobenzene (SS)	460-00-4	69	%	78	%	80	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/11/2014 - 08/11
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/11/2014 - 08/11
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg
Location ID:	1-1	Prep Method:	Soils (SW), EPA 50
			Ground Waters (N

08/11/2014 - 08/11/2014 08/11/2014 - 08/11/2014 8260C ug/kg as received wet weight Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



Depth		010.00		017.00	
Sample Name	CAS #	1-1-10		1-1-17	
Analysis Date		08/11/14 10:38	Ν	08/11/14 10:57	Ν
Vinyl Chloride	75-01-4	97.2	U	93.0	U
trans-1,2-Dichloroethene	156-60-5	97.2	U	93.0	U
cis-1,2-Dichloroethene	156-59-2	97.2	U	93.0	U
Trichloroethene	79-01-6	97.2	U	93.0	U
Tetrachloroethene	127-18-4	97.2	U	93.0	U
Bromofluorobenzene (SS)	460-00-4	80	%	80	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/15/2014 - 08/15/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/15/2014 - 08/15/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	GW & Soils	Results Given as:	ug/L Waters, ug/kg Soils as received wet weight
Location ID:	1-10	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00
			Ground Waters (NPW), ASTM D6520-00

All of the tests re NELAP standard parameters for v reports were cor requirements. A requirements ar

Depth		005.00		005.01		008.00		010.00		010.01		015.00	
Sample Name	CAS #	1-10-05		1-10 (5-8)		1-10 (8-10)		1-10-10		1-10 (10-13)		1-10-15	
Analysis Date		08/15/14 12:57	Ν	08/15/14 13:49	Ν	08/15/14 14:21	Ν	08/15/14 13:14	Ν	08/15/14 14:06	Ν	08/15/14 13:31	Ν
Vinyl Chloride	75-01-4	103	U	2.00	U	2.00	U	72.8	U	2.00	U	81.6	U
trans-1,2-Dichloroethene	156-60-5	103	U	2.00	U	2.00	U	72.8	U	2.00	U	81.6	U
cis-1,2-Dichloroethene	156-59-2	103	U	2.00	U	2.00	U	72.8	U	2.00	U	81.6	U
Trichloroethene	79-01-6	34.5	J	13.1		9.54		598		147		2420	
Tetrachloroethene	127-18-4	103	U	2.00	U	2.00	U	505		4.11		81.6	U
Bromofluorobenzene (SS)	460-00-4	82	%	84	%	80	%	84	%	82	%	83	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/13/2014 - 08/13/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/13/2014 - 08/13/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	GW and Soil	Results Given as:	ug/L Water, ug/kg Soil as received wet weight
Location ID:	1-2	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00
			Ground Waters (NPW), ASTM D6520-00

Depth		010.00		013.50		016.00		016.50		017.00		017.01	019.00	
Sample Name	CAS #	1-2(10-13)		1-2(13.5-16.5)		1-2-16		1-2(16.5-18)		1-2-17		1-2-17D	1-2-19	
Analysis Date		08/13/14 17:50	Ν	08/13/14 18:07	Ν	08/13/14 16:57	Ν	08/13/14 18:24	Ν	08/11/14 11:16	Ν	08/13/14 17:15 N	08/13/14 17:32	N
Vinyl Chloride	75-01-4	2.00	U	2.00	U	71.4	U	2.00	U	77.4	U	88.2 U	79.1 l	J
trans-1,2-Dichloroethene	156-60-5	2.00	U	2.00	U	71.4	U	2.00	C	77.4	U	88.2 U	79.1 l	U
cis-1,2-Dichloroethene	156-59-2	2.00	U	7.80		26.8	J	73.6		77.4	U	88.2 U	79.1 l	U
Trichloroethene	79-01-6	0.990	J	2.00	U	82.9		7.95		162		88.2 U	79.1 l	U
Tetrachloroethene	127-18-4	2.00	U	2.00	U	71.4	U	2.00	U	77.4	U	88.2 U	79.1 l	J
Bromofluorobenzene (SS)	460-00-4	84	%	76	%	67	%	76	%	80	%	86 %	74 9	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/11/2014 - 08/1
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/11/2014 - 08/1
SEI Project No .:	14-152	Test Method:	8260C,8260C
Matrix:	Soil	Results Given as:	ug/kg
Location ID:	1-3	Prep Method:	Soils (SW), EPA 5
			('round Wotoro /N

Dept	h	016.00	
Sample Nam	e CAS #	1-3-16	
Analysis Dat	e	08/11/14 11:34	Ν
Vinyl Chloride	75-01-4	76.4	U
trans-1,2-Dichloroethene	156-60-5	76.4	U
cis-1,2-Dichloroethene	156-59-2	76.4	U
Trichloroethene	79-01-6	76.4	U
Tetrachloroethene	127-18-4	76.4	U
Bromofluorobenzene (SS)	460-00-4	81	%

8/22/2014 08/11/2014 - 08/11/2014 08/11/2014 - 08/11/2014 8260C,8260C ug/kg as received wet weight Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/11/2014 - 08/11/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/11/2014 - 08/11/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg
Location ID:	1-4	Prep Method:	Soils (SW), EPA 5035A0
			Ground Waters (NPW)





Depth		015.00		016.00	
Sample Name	CAS #	1-4-15		1-4-16	
Analysis Date		08/11/14 12:12	Ν	08/11/14 11:53	Ν
Vinyl Chloride	75-01-4	109	U	98.3	U
trans-1,2-Dichloroethene	156-60-5	109	U	98.3	U
cis-1,2-Dichloroethene	156-59-2	109	U	98.3	U
Trichloroethene	79-01-6	109	U	98.3	U
Tetrachloroethene	127-18-4	109	U	98.3	U
Bromofluorobenzene (SS)	460-00-4	80	%	86	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/13/2014 - 08/13/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/13/2014 - 08/13/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	GW and Soils	Results Given as:	ug/L Water, ug/kg Soils as received wet weight
Location ID:	1-5	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00
			Ground Waters (NPW), ASTM D6520-00



Depth		010.00		013.50		015.00		016.00		017.00	
Sample Name	CAS #	1-5(10-13)		1-5(13.5-16.5)		1-5-15		1-5-16		1-5(17-20)	
Analysis Date		08/13/14 18:59	Ν	08/13/14 18:41	Ν	08/11/14 13:22	Ν	08/11/14 13:41	Ν	08/13/14 19:16	Ν
Vinyl Chloride	75-01-4	2.00	U	2.00	U	82.7	U	91.3	U	2.00	U
trans-1,2-Dichloroethene	156-60-5	2.00	U	2.00	U	82.7	U	91.3	U	2.00	U
cis-1,2-Dichloroethene	156-59-2	1.43	J	13.4		82.7	U	91.3	U	2.00	U
Trichloroethene	79-01-6	9.03		5.07		82.7	U	60.7	J	2.00	U
Tetrachloroethene	127-18-4	1.26	J	2.00	U	82.7	U	54.3	J	2.00	U
Bromofluorobenzene (SS)	460-00-4	77	%	73	%	81	%	82	%	74	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/11/2014 - 08/11/
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/11/2014 - 08/11/
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg
Location ID:	1-6	Prep Method:	Soils (SW), EPA 50
			Ground Waters (NE

08/11/2014 - 08/11/2014 08/11/2014 - 08/11/2014 8260C ug/kg as received wet weight Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



Depth		010.00		016.00	
Sample Name	CAS #	1-6-10		1-6-16	
Analysis Date		08/11/14 15:22	Ν	08/11/14 15:40	Ν
Vinyl Chloride	75-01-4	86.6	U	87.3	U
trans-1,2-Dichloroethene	156-60-5	86.6	U	87.3	U
cis-1,2-Dichloroethene	156-59-2	86.6	U	87.3	U
Trichloroethene	79-01-6	86.6	U	87.3	U
Tetrachloroethene	127-18-4	86.6	U	87.3	U
Bromofluorobenzene (SS)	460-00-4	81	%	78	%

# Stone Environmental Laboratory Results Laboratory Unit: ML2

Laboratory Unit:	IVILZ		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/14/2014 - 08/14/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/14/2014 - 08/15/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	GW & Soils	Results Given as:	ug/L Waters, ug/kg Soils as received wet weight
Location ID:	1-7	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00
			Ground Waters (NPW), ASTM D6520-00



Depth	1	010.00		013.50		015.00		017.00		017.50	
Sample Name	CAS #	1-7 (10-13)		1-7 (13.5-16.5)		1-7-15		1-7-17		1-7 (17.5-19.5)	
Analysis Date		08/14/14 23:34	Ν	08/14/14 23:51	Ν	08/13/14 16:22	Ν	08/13/14 16:40	Ν	08/15/14 00:08	Ν
Vinyl Chloride	75-01-4	2.00	U	2.00	U	75.7	U	83.9	U	2.00	U
trans-1,2-Dichloroethene	156-60-5	2.00	U	2.00	U	75.7	U	83.9	U	2.00	U
cis-1,2-Dichloroethene	156-59-2	2.00	U	4.90		56.8	J	83.9	U	2.00	U
Trichloroethene	79-01-6	10.6		18.1		1280		572		2.00	U
Tetrachloroethene	127-18-4	7.37		3.80		69.6	J	215		2.00	U
Bromofluorobenzene (SS)	460-00-4	76	%	79	%	74	%	70	%	81	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/14/2014 - 08/14/201
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/14/2014 - 08/14/20
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg
Location ID:	1-8	Prep Method:	Soils (SW), EPA 5035/
			Ground Waters (NPW)





Depth		014.00		016.00	
Sample Name	CAS #	1-8-14		1-8-16	
Analysis Date		08/14/14 12:54	Ν	08/14/14 13:12	Ν
Vinyl Chloride	75-01-4	76.6	U	87.4	U
trans-1,2-Dichloroethene	156-60-5	76.6	U	87.4	U
cis-1,2-Dichloroethene	156-59-2	76.6	U	87.4	U
Trichloroethene	79-01-6	855		195	
Tetrachloroethene	127-18-4	392		87.4	U
Bromofluorobenzene (SS)	460-00-4	81	%	83	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/14/2014 - 08/14/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/14/2014 - 08/14/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet weight
Location ID:	1-9	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00
			Glouinu Walers (INF W), ASTIN D0520-00



Depth		010.00		012.00		014.00	
Sample Name	CAS #	1-9-10		1-9-12		1-9-14	
Analysis Date		08/14/14 21:33	Ν	08/14/14 21:51	Ν	08/14/14 22:08	Ν
Vinyl Chloride	75-01-4	82.4	U	83.2	U	81.8	U
trans-1,2-Dichloroethene	156-60-5	82.4	U	83.2	U	81.8	U
cis-1,2-Dichloroethene	156-59-2	82.4	U	83.2	U	81.8	U
Trichloroethene	79-01-6	35.8	J	688		218	
Tetrachloroethene	127-18-4	81.2	J	313		130	
Bromofluorobenzene (SS)	460-00-4	86	%	82	%	89	%

#### Stone Environmental Laboratory Results Laboratory Unit: ML2

Laboratory Unit.	IVILZ			
Client:	Parsons	Report Date:	8/22/2014	
Location:	Rome, NY	Date(s) Sampled:	08/14/2014 - 08/14/2014	
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/14/2014 - 08/14/2014	
SEI Project No .:	14-152	Test Method:	8260C	
Matrix:	Soil	Results Given as:	ug/kg	as received wet weight
Location ID:	2.5-1	Prep Method:	Soils (SW), EPA 5035A0	H/ASTM D62520-00
			Ground Waters (NPW), A	STM D6520-00



Depth		005.00		010.00		015.00		019.00	
Sample Name	CAS #	2.5-1-05		2.5-1-10		2.5-1-15		2.5-1-19	
Analysis Date		08/14/14 19:13	Ν	08/14/14 19:31	Ν	08/14/14 19:48	Ν	08/14/14 20:06	Ν
Vinyl Chloride	75-01-4	110	U	85.3	U	85.6	U	76.3	U
trans-1,2-Dichloroethene	156-60-5	110	U	85.3	U	85.6	U	76.3	U
cis-1,2-Dichloroethene	156-59-2	110	U	85.3	U	25.2	J	76.3	U
Trichloroethene	79-01-6	110	U	25.6	J	232		76.3	U
Tetrachloroethene	127-18-4	110	U	61.4	J	85.6	U	76.3	U
Bromofluorobenzene (SS)	460-00-4	88	%	85	%	89	%	82	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/14/2014 - 08/14/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/14/2014 - 08/14/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet we
Location ID:	2.5-2	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for NELAP startages and need an NELAP requirements to parameters for which according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth		018.00		020.00	
Sample Name	CAS #	2.5-2-18		2.5-2-20	
Analysis Date		08/14/14 18:38	Ν	08/14/14 18:55	Ν
Vinyl Chloride	75-01-4	78.9	U	68.5	U
trans-1,2-Dichloroethene	156-60-5	78.9	U	68.5	U
cis-1,2-Dichloroethene	156-59-2	78.9	U	68.5	U
Trichloroethene	79-01-6	50.5	J	822	
Tetrachloroethene	127-18-4	84.8		68.5	U
Bromofluorobenzene (SS)	460-00-4	79	%	79	%

as received wet weight

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/14/2014 - 08/14/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/14/2014 - 08/14/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet we
Location ID:	2.5-3	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for NELAP startages and need an NELAP requirements to parameters for which according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth		015.00		019.00	
Sample Name	CAS #	2.5-3-15		2.5-3-19	
Analysis Date		08/14/14 23:17	Ν	08/14/14 18:20	Ν
Vinyl Chloride	75-01-4	77.9	U	61.2	U
trans-1,2-Dichloroethene	156-60-5	77.9	U	61.2	U
cis-1,2-Dichloroethene	156-59-2	77.9	U	61.2	U
Trichloroethene	79-01-6	79.5		769	
Tetrachloroethene	127-18-4	212		61.2	U
Bromofluorobenzene (SS)	460-00-4	75	%	77	%

as received wet weight

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/14/2014 - 08/14/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/14/2014 - 08/14/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet we
Location ID:	2.5-4	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth		014.00		018.00	
Sample Name	CAS #	2.5-4-14		2.5-4-18	
Analysis Date		08/14/14 15:15	Ν	08/14/14 13:47	Ν
Vinyl Chloride	75-01-4	62.7	UQ	81.1	U
trans-1,2-Dichloroethene	156-60-5	62.7	U	81.1	U
cis-1,2-Dichloroethene	156-59-2	62.7	U	81.1	U
Trichloroethene	79-01-6	62.7	U	81.1	U
Tetrachloroethene	127-18-4	62.7	U	81.1	U
Bromofluorobenzene (SS)	460-00-4	66	%	83	%

as received wet weight
Laboratory Unit:	ML2	
Client:	Parsons	Report Date:
Location:	Rome, NY	Date(s) Sampled
Project ID:	Parsons GAFB	Date(s) Analyzed
SEI Project No .:	14-152	Test Method:
Matrix:	GW & Soils	Results Given as
Location ID:	2.5-5	Prep Method:

<u>.</u>	8/22/2014
pled:	08/15/2014 - 08/15/2014
yzed:	08/15/2014 - 08/15/2014
<u> :</u>	8260C
en as:	ug/L Waters, ug/kg Soils as received wet weight
<u>l:</u>	Soils (SW), EPA 5035A0H/ASTM D62520-00
	Ground Waters (NPW), ASTM D6520-00



Depth	۱	010.00		013.50		015.00		017.00		018.00	1
Sample Name	CAS #	2.5-5 (10-13)		2.5-5 (13.5-16.5)		2.5-5-15		2.5-5 (17-20)		2.5-5-18	
Analysis Date		08/15/14 10:21	Ν	08/15/14 12:05	Ν	08/14/14 14:40	Ν	08/15/14 10:55	Ν	08/14/14 14:57	Ν
Vinyl Chloride	75-01-4	2.00	U	2.00	U	73.1	UQ	2.00	U	49.1	UQ
trans-1,2-Dichloroethene	156-60-5	2.00	U	2.00	U	73.1	U	2.00	U	49.1	U
cis-1,2-Dichloroethene	156-59-2	0.680	J	2.00	U	73.1	U	2.00	U	49.1	U
Trichloroethene	79-01-6	38.1		7.03		6300		2.57		33.4	J
Tetrachloroethene	127-18-4	35.6		2.00	U	73.1	U	2.00	U	49.1	U
Bromofluorobenzene (SS)	460-00-4	85	%	85	%	78	%	85	%	74	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/14/2014 - 08/14/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/14/2014 - 08/14/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet we
Location ID:	2.5-6	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for NELAP startages and need an NELAP requirements to parameters for which according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth		014.00		018.00	
Sample Name	CAS #	2.5-6-14		2.5-6-18	
Analysis Date		08/14/14 13:29	Ν	08/14/14 12:37	Ν
Vinyl Chloride	75-01-4	74.1	U	63.8	U
trans-1,2-Dichloroethene	156-60-5	74.1	U	63.8	U
cis-1,2-Dichloroethene	156-59-2	74.1	U	63.8	U
Trichloroethene	79-01-6	74.1	U	63.8	U
Tetrachloroethene	127-18-4	74.1	U	63.8	U
Bromofluorobenzene (SS)	460-00-4	74	%	79	%

as received wet weight

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/12/2014 - 08/12/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet weight
Location ID:	2-1	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



Depth		014.00		017.00		020.00	
Sample Name	CAS #	2-1-14		2-1-17		2-1-20	
Analysis Date		08/12/14 11:42	Ν	08/12/14 11:24	Ν	08/12/14 11:07	Ν
Vinyl Chloride	75-01-4	79.8	U	75.1	U	119	U
trans-1,2-Dichloroethene	156-60-5	79.8	U	75.1	U	119	U
cis-1,2-Dichloroethene	156-59-2	79.8	U	75.1	U	119	U
Trichloroethene	79-01-6	71.1	J	75.1	U	119	U
Tetrachloroethene	127-18-4	79.8	U	75.1	U	119	U
Bromofluorobenzene (SS)	460-00-4	77	%	81	%	84	%

ML2		
Parsons	Report Date:	8/22/2014
Rome, NY	Date(s) Sampled:	08/11/2014 - 08/11/2014
Parsons GAFB	Date(s) Analyzed:	08/12/2014 - 08/12/2014
14-152	Test Method:	8260C
Soil	Results Given as:	ug/kg as received we
2-2	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520 Ground Waters (NPW), ASTM D6520-00
	ML2 Parsons Rome, NY Parsons GAFB 14-152 Soil 2-2	ML2       Parsons     Report Date:       Rome, NY     Date(s) Sampled:       Parsons GAFB     Date(s) Analyzed:       14-152     Test Method:       Soil     Results Given as:       2-2     Prep Method:



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Depth		014.00		017.00	
Sample Name	CAS #	2-2-14		2-2-17	
Analysis Date		08/12/14 10:49	Ν	08/12/14 10:31	Ν
Vinyl Chloride	75-01-4	93.7	U	75.0	U
trans-1,2-Dichloroethene	156-60-5	93.7	U	75.0	U
cis-1,2-Dichloroethene	156-59-2	93.7	U	75.0	U
Trichloroethene	79-01-6	40.7	J	41.3	J
Tetrachloroethene	127-18-4	93.7	U	75.0	U
Bromofluorobenzene (SS)	460-00-4	77	%	77	%

Laboratory Unit:	ML2			
Client:	Parsons	Report Date:	8/22/2014	
Location:	Rome, NY	Date(s) Sampled:	08/11/2014 - 08/11/2014	
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/12/2014 - 08/12/2014	
SEI Project No .:	14-152	Test Method:	8260C	
Matrix:	Soil	Results Given as:	ug/kg as received	wet weight
Location ID:	2-3	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62	520-00
			Ground Waters (NPW), ASTM D6520-	.00



Depth		016.00		017.00		018.00	
Sample Name	CAS #	2-3-16		2-3-17		2-3-18	
Analysis Date		08/12/14 10:13	Ν	08/12/14 09:55	Ν	08/12/14 09:37	Ν
Vinyl Chloride	75-01-4	89.1	U	77.1	U	90.1	U
trans-1,2-Dichloroethene	156-60-5	89.1	U	77.1	U	90.1	U
cis-1,2-Dichloroethene	156-59-2	89.1	U	77.1	U	90.1	U
Trichloroethene	79-01-6	89.1	U	107		264	
Tetrachloroethene	127-18-4	89.1	U	77.1	U	90.1	U
Bromofluorobenzene (SS)	460-00-4	74	%	83	%	80	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/11/2014 - 08/11/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/11/2014 - 08/11/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet weight
Location ID:	2-4	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00
			Ground Waters (NPW), ASTM D6520-00



Depth		016.00		017.00		018.00	
Sample Name	CAS #	2-4-16		2-4-17		2-4-18	
Analysis Date		08/11/14 17:47	Ν	08/11/14 17:29	Ν	08/11/14 17:11	Ν
Vinyl Chloride	75-01-4	96.2	U	0.00	U	79.5	U
trans-1,2-Dichloroethene	156-60-5	96.2	U	0.00	U	79.5	U
cis-1,2-Dichloroethene	156-59-2	96.2	U	0.00	U	79.5	U
Trichloroethene	79-01-6	96.2	U	134		229	
Tetrachloroethene	127-18-4	96.2	U	58.0	J	79.5	U
Bromofluorobenzene (SS)	460-00-4	80	%	79	%	82	%

Laboratory Unit:	ML2			
Client:	Parsons	Report Date:	8/22/2014	
Location:	Rome, NY	Date(s) Sampled:	08/11/2014 - 08/11/2014	
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/11/2014 - 08/11/2014	
SEI Project No .:	14-152	Test Method:	8260C	
Matrix:	Soil	Results Given as:	ug/kg	as received wet weight
Location ID:	2-5	Prep Method:	Soils (SW), EPA 5035A0H	H/ASTM D62520-00
			Ground Waters (NPW), A	STM D6520-00



Depth		016.00		018.00		020.00	
Sample Name	CAS #	2-5-16		2-5-18		2-5-20	
Analysis Date		08/11/14 16:35	Ν	08/11/14 15:58	Ν	08/11/14 16:53	Ν
Vinyl Chloride	75-01-4	83.7	U	92.1	U	109	U
trans-1,2-Dichloroethene	156-60-5	83.7	U	92.1	U	109	U
cis-1,2-Dichloroethene	156-59-2	25.5	J	92.1	U	547	
Trichloroethene	79-01-6	64.9	J	75.5	J	497	
Tetrachloroethene	127-18-4	53.1	J	92.1	U	206	
Bromofluorobenzene (SS)	460-00-4	80	%	81	%	84	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/11/2014 - 08/11/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/11/2014 - 08/11/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet weight
Location ID:	2-6	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



Depth		017.00	
Sample Name	CAS #	2-6-17	
Analysis Date		08/11/14 16:17	Ν
Vinyl Chloride	75-01-4	72.8	U
trans-1,2-Dichloroethene	156-60-5	72.8	U
cis-1,2-Dichloroethene	156-59-2	72.8	U
Trichloroethene	79-01-6	24.7	J
Tetrachloroethene	127-18-4	41.9	J
Bromofluorobenzene (SS)	460-00-4	88	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/13/2014 - 08/13/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/13/2014 - 08/13/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet we
Location ID:	2-7	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



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Depth		017.00		019.00	
Sample Name	CAS #	2-7-17		2-7-19	
Analysis Date		08/13/14 14:53	Ν	08/13/14 15:11	Ν
Vinyl Chloride	75-01-4	83.2	U	92.9	U
trans-1,2-Dichloroethene	156-60-5	83.2	U	92.9	U
cis-1,2-Dichloroethene	156-59-2	83.2	U	63.6	J
Trichloroethene	79-01-6	313		308	
Tetrachloroethene	127-18-4	173		178	
Bromofluorobenzene (SS)	460-00-4	75	%	75	%

as received wet weight

## Stone Environmental Laboratory Results Laboratory Unit: ML2

Laboratory Unit:	IVILZ			
Client:	Parsons	Report Date:	8/22/2014	
Location:	Rome, NY	Date(s) Sampled:	08/15/2014 - 08/15/2014	ļ.
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/15/2014 - 08/15/2014	ļ.
SEI Project No .:	14-152	Test Method:	8260C	
Matrix:	Soil	Results Given as:	ug/kg	as received wet weight
Location ID:	2-8	Prep Method:	Soils (SW), EPA 5035A0	0H/ASTM D62520-00
			Ground Waters (NPW),	ASTM D6520-00



Depth		005.00		010.00		015.00		020.00	i
Sample Name	CAS #	2-8-05		2-8-10		2-8-15		2-8-20	
Analysis Date		08/15/14 14:39	Ν	08/15/14 14:56	Ν	08/15/14 15:14	Ν	08/15/14 15:31	Ν
Vinyl Chloride	75-01-4	136	U	125	U	129	U	101	U
trans-1,2-Dichloroethene	156-60-5	136	U	125	U	129	U	101	U
cis-1,2-Dichloroethene	156-59-2	136	U	125	U	129	U	101	U
Trichloroethene	79-01-6	136	U	93.9	J	129	U	1180	
Tetrachloroethene	127-18-4	136	U	219		129	U	101	U
Bromofluorobenzene (SS)	460-00-4	85	%	81	%	83	%	85	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/12/2014 - 08/12/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet we
Location ID:	3-1	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth		015.00		018.00	
Sample Name	CAS #	3-1-15		3-1-18	
Analysis Date		08/12/14 12:00	Ν	08/12/14 12:19	Ν
Vinyl Chloride	75-01-4	75.4	U	76.1	U
trans-1,2-Dichloroethene	156-60-5	75.4	U	76.1	U
cis-1,2-Dichloroethene	156-59-2	75.4	U	76.1	U
Trichloroethene	79-01-6	29.8	J	163	
Tetrachloroethene	127-18-4	39.6	J	76.1	U
Bromofluorobenzene (SS)	460-00-4	84	%	82	%

as received wet weight

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/12/2014 - 08/12/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet we
Location ID:	3-2	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



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Depth		016.00		019.00	
Sample Name	CAS #	3-2-16		3-2-19	
Analysis Date		08/12/14 12:36	Ν	08/12/14 12:54	Ν
Vinyl Chloride	75-01-4	72.3	U	72.6	U
trans-1,2-Dichloroethene	156-60-5	72.3	U	72.6	U
cis-1,2-Dichloroethene	156-59-2	72.3	U	72.6	U
Trichloroethene	79-01-6	64.7	J	499	
Tetrachloroethene	127-18-4	71.2	J	72.6	U
Bromofluorobenzene (SS)	460-00-4	78	%	76	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/12/2014 - 08/12/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg
Location ID:	3-3	Prep Method:	Soils (SW), EPA 5035A
			Ground Waters (NPW)





Depth		016.00		019.00	
Sample Name	CAS #	3-3-16		3-3-19	
Analysis Date		08/12/14 13:12	Ν	08/12/14 13:30	Ν
Vinyl Chloride	75-01-4	79.0	U	72.5	U
trans-1,2-Dichloroethene	156-60-5	79.0	U	72.5	U
cis-1,2-Dichloroethene	156-59-2	79.0	U	72.5	U
Trichloroethene	79-01-6	22.5	J	72.5	U
Tetrachloroethene	127-18-4	79.0	U	72.5	U
Bromofluorobenzene (SS)	460-00-4	78	%	81	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/12/2014 - 08/12/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg
Location ID:	3-4	Prep Method:	Soils (SW), EPA 5035A0
			Ground Waters (NPW)





Depth		016.00		019.00	
Sample Name	CAS #	3-4-16		3-4-19	
Analysis Date		08/12/14 13:48	Ν	08/12/14 14:06	Ν
Vinyl Chloride	75-01-4	64.1	U	151	U
trans-1,2-Dichloroethene	156-60-5	64.1	U	151	U
cis-1,2-Dichloroethene	156-59-2	64.1	U	151	U
Trichloroethene	79-01-6	128		1500	
Tetrachloroethene	127-18-4	136		151	U
Bromofluorobenzene (SS)	460-00-4	77	%	71	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/12/2014 - 08/12/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg
Location ID:	3-6	Prep Method:	Soils (SW), EPA 5035A0
			Ground Waters (NPW)





Depth		014.00	1	018.00	1
Sample Name	CAS #	3-6-14		3-6-18	1
Analysis Date		08/12/14 15:16	Ν	08/12/14 15:34	Ν
Vinyl Chloride	75-01-4	70.6	U	78.1	U
trans-1,2-Dichloroethene	156-60-5	70.6	U	78.1	U
cis-1,2-Dichloroethene	156-59-2	70.6	U	78.1	U
Trichloroethene	79-01-6	375		1710	
Tetrachloroethene	127-18-4	179		78.1	U
Bromofluorobenzene (SS)	460-00-4	78	%	80	%

Laboratory Unit:	ML2			
Client:	Parsons	Report Date:	8/22/2014	
Location:	Rome, NY	Date(s) Sampled:	08/13/2014 - 08/13/2014	
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/13/2014 - 08/13/2014	
SEI Project No .:	14-152	Test Method:	8260C	
Matrix:	Soil	Results Given as:	ug/kg	as received wet weight
Location ID:	3-7	Prep Method:	Soils (SW), EPA 5035A0H	H/ASTM D62520-00
			Ground Waters (NPW), A	SIM D6520-00



Depth		011.00		014.00		019.00	
Sample Name	CAS #	3-7-11		3-7-14		3-7-19	
Analysis Date		08/13/14 15:29	Ν	08/13/14 15:47	Ν	08/13/14 16:04	Ν
Vinyl Chloride	75-01-4	98.8	U	70.1	U	69.2	U
trans-1,2-Dichloroethene	156-60-5	98.8	U	70.1	U	69.2	U
cis-1,2-Dichloroethene	156-59-2	98.8	U	70.1	U	69.2	U
Trichloroethene	79-01-6	38.0	J	933		326	
Tetrachloroethene	127-18-4	151		720		69.2	U
Bromofluorobenzene (SS)	460-00-4	74	%	68	%	73	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/13/2014 - 08/13/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet we
Location ID:	4-1	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth		014.00		018.00	
Sample Name	CAS #	4-1-14		4-1-18	
Analysis Date		08/13/14 12:12	Ν	08/13/14 12:29	Ν
Vinyl Chloride	75-01-4	74.9	U	77.9	U
trans-1,2-Dichloroethene	156-60-5	74.9	U	77.9	U
cis-1,2-Dichloroethene	156-59-2	74.9	U	77.9	U
Trichloroethene	79-01-6	74.9	U	554	
Tetrachloroethene	127-18-4	74.9	U	158	
Bromofluorobenzene (SS)	460-00-4	73	%	78	%

as received wet weight

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/13/2014 - 08/13/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet we
Location ID:	4-2	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth		016.00		018.00	
Sample Name	CAS #	4-2-16		4-2-18	
Analysis Date		08/13/14 11:36	Ν	08/13/14 11:54	Ν
Vinyl Chloride	75-01-4	79.9	U	76.3	U
trans-1,2-Dichloroethene	156-60-5	79.9	U	76.3	U
cis-1,2-Dichloroethene	156-59-2	79.9	U	76.3	U
Trichloroethene	79-01-6	22.8	J	536	
Tetrachloroethene	127-18-4	79.9	U	76.3	U
Bromofluorobenzene (SS)	460-00-4	77	%	74	%

as received wet weight

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/13/2014 - 08/13/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg as received wet we
Location ID:	4-3	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



elad

Depth		015.00		018.00	
Sample Name	CAS #	4-3-15		4-3-18	
Analysis Date		08/13/14 11:00	Ν	08/13/14 11:18	Ν
Vinyl Chloride	75-01-4	64.7	U	76.1	U
trans-1,2-Dichloroethene	156-60-5	64.7	U	76.1	U
cis-1,2-Dichloroethene	156-59-2	64.7	U	76.1	U
Trichloroethene	79-01-6	47.2	J	392	
Tetrachloroethene	127-18-4	52.4	J	318	
Bromofluorobenzene (SS)	460-00-4	79	%	88	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/15/2014 - 08/15/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/15/2014 - 08/15/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	GW & Soils	Results Given as:	ug/L Waters, ug/kg Soils as received wet weight
Location ID:	4-4	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00
			Ground Waters (NPW), ASTM D6520-00



Depth		010.00		013.50		015.00		017.00		018.00	
Sample Name	CAS #	4-4 (10-13)		4-4 (13.5-16.5)		4-4-15		4-4 (17-20)		4-4-18	
Analysis Date		08/15/14 11:30	Ν	08/15/14 11:12	Ν	08/12/14 17:45	Ν	08/15/14 11:47	Ν	08/12/14 18:02	Ν
Vinyl Chloride	75-01-4	2.00	U	2.00	U	70.9	U	2.00	U	74.2	U
trans-1,2-Dichloroethene	156-60-5	2.00	U	2.00	U	70.9	U	2.00	U	74.2	U
cis-1,2-Dichloroethene	156-59-2	2.00	U	2.00	U	70.9	U	2.00	U	74.2	U
Trichloroethene	79-01-6	37.5		47.2		42.9	J	6.91		3430	
Tetrachloroethene	127-18-4	30.9		23.7		81.1		2.00	U	70.5	J
Bromofluorobenzene (SS)	460-00-4	84	%	84	%	78	%	86	%	75	%

ML2		
Parsons	Report Date:	8/22/2014
Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Parsons GAFB	Date(s) Analyzed:	08/12/2014 - 08/12/2014
14-152	Test Method:	8260C
Soil	Results Given as:	ug/kg as received we
4-5	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520 Ground Waters (NPW), ASTM D6520-00
	ML2 Parsons Rome, NY Parsons GAFB 14-152 Soil 4-5	ML2ParsonsReport Date:Rome, NYDate(s) Sampled:Parsons GAFBDate(s) Analyzed:14-152Test Method:SoilResults Given as:4-5Prep Method:



elad

Depth		016.00		020.00	
Sample Name	CAS #	4-5-16		4-5-20	
Analysis Date		08/12/14 17:09	Ν	08/12/14 17:27	Ν
Vinyl Chloride	75-01-4	71.8	U	66.1	U
trans-1,2-Dichloroethene	156-60-5	71.8	U	66.1	U
cis-1,2-Dichloroethene	156-59-2	71.8	U	66.1	U
Trichloroethene	79-01-6	110		66.1	U
Tetrachloroethene	127-18-4	129		66.1	U
Bromofluorobenzene (SS)	460-00-4	76	%	76	%

ML2		
Parsons	Report Date:	8/22/2014
Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Parsons GAFB	Date(s) Analyzed:	08/12/2014 - 08/12/2014
14-152	Test Method:	8260C
Soil	Results Given as:	ug/kg as received wet we
4-6	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00
	ML2 Parsons Rome, NY Parsons GAFB 14-152 Soil 4-6	ML2       Parsons     Report Date:       Rome, NY     Date(s) Sampled:       Parsons GAFB     Date(s) Analyzed:       14-152     Test Method:       Soil     Results Given as:       4-6     Prep Method:



All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth		014.00		019.00	
Sample Name	CAS #	4-6-14		4-6-19	
Analysis Date		08/12/14 15:51	Ν	08/12/14 16:09	Ν
Vinyl Chloride	75-01-4	76.6	U	67.5	U
trans-1,2-Dichloroethene	156-60-5	76.6	U	67.5	U
cis-1,2-Dichloroethene	156-59-2	76.6	U	67.5	U
Trichloroethene	79-01-6	257		18.9	J
Tetrachloroethene	127-18-4	323		67.5	U
Bromofluorobenzene (SS)	460-00-4	71	%	78	%

as received wet weight

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/
Location:	Rome, NY	Date(s) Sampled:	08
Project ID:	Parsons GAFB	Date(s) Analyzed:	08
SEI Project No .:	14-152	Test Method:	82
Matrix:	Soil	Results Given as:	ug
Location ID:	5-0	Prep Method:	So
			0

	8/22/2014	
led:	08/14/2014 - 08/14/20	)14
zed:	08/14/2014 - 08/14/20	)14
	8260C	
<u>as:</u>	ug/kg Soils (SW), EPA 5035 Ground Waters (NPW	as received wet weight 5A0H/ASTM D62520-00 /), ASTM D6520-00



Depth		005.00		010.00		013.00		020.00	
Sample Name	CAS #	5-0-05		5-0-10		5-0-13		5-0-20	
Analysis Date		08/14/14 20:24	Ν	08/14/14 20:41	Ν	08/14/14 20:59	Ν	08/14/14 21:16	Ν
Vinyl Chloride	75-01-4	76.6	U	84.5	U	86.8	U	79.4	U
trans-1,2-Dichloroethene	156-60-5	76.6	U	84.5	U	86.8	U	79.4	U
cis-1,2-Dichloroethene	156-59-2	76.6	U	84.5	U	86.8	U	79.4	U
Trichloroethene	79-01-6	76.6	U	98.0		62.9	J	1790	
Tetrachloroethene	127-18-4	76.6	U	267		82.9	J	235	
Bromofluorobenzene (SS)	460-00-4	76	%	83	%	78	%	84	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/13/2014 - 08/13/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg
Location ID:	5-1	Prep Method:	Soils (SW), EPA 5035A
			Ground Waters (NPW)





Depth		014.00		019.00	
Sample Name	CAS #	5-1-14		5-1-19	
Analysis Date		08/13/14 12:47	Ν	08/13/14 13:05	Ν
Vinyl Chloride	75-01-4	69.0	U	74.9	U
trans-1,2-Dichloroethene	156-60-5	69.0	U	74.9	U
cis-1,2-Dichloroethene	156-59-2	69.0	U	74.9	U
Trichloroethene	79-01-6	6020		74.9	U
Tetrachloroethene	127-18-4	101		74.9	U
Bromofluorobenzene (SS)	460-00-4	73	%	73	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/12/2014 - 08/12/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/13/2014 - 08/13/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	Soil	Results Given as:	ug/kg
Location ID:	5-2	Prep Method:	Soils (SW), EPA 5035A
			Ground Waters (NPW)





Depth		014.00		019.00	
Sample Name	CAS #	5-2-14		5-2-19	
Analysis Date		08/13/14 13:23	Ν	08/13/14 13:41	Ν
Vinyl Chloride	75-01-4	66.8	U	80.1	U
trans-1,2-Dichloroethene	156-60-5	66.8	U	80.1	U
cis-1,2-Dichloroethene	156-59-2	66.8	U	80.1	U
Trichloroethene	79-01-6	3120		25.2	J
Tetrachloroethene	127-18-4	437		42.8	J
Bromofluorobenzene (SS)	460-00-4	85	%	76	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/14/2014 - 08/14/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/15/2014 - 08/15/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	GW	Results Given as:	ug/L as received wet weight
Location ID:	5-3	Prep Method:	Soils (SW), EPA 5035A0H/ASTM D62520-00
			Ground Waters (NPW), ASTM D6520-00



Depth		010.00		013.50		014.00		017.00		018.00		019.00	
Sample Name	CAS #	5-3 (10-13)		5-3 (13.5-16.5)		5-3-14		5-3 (17-19)		5-3-18		5-3-19	
Analysis Date		08/15/14 00:26	Ν	08/15/14 00:43	Ν	08/13/14 13:59	Ν	08/15/14 01:00	Ν	08/13/14 14:17	Ν	08/13/14 14:35	Ν
Vinyl Chloride	75-01-4	2.00	U	2.00	U	87.0	U	2.00	U	77.6	U	89.5	U
trans-1,2-Dichloroethene	156-60-5	2.00	U	2.00	U	87.0	U	2.00	U	77.6	U	89.5	U
cis-1,2-Dichloroethene	156-59-2	2.00	U	2.00	U	87.0	U	2.00	U	77.6	U	89.5	U
Trichloroethene	79-01-6	4.34		26.6		8470		28.6		29.1	J	53.2	J
Tetrachloroethene	127-18-4	5.71		15.4		99.6		17.5		81.9		104	
Bromofluorobenzene (SS)	460-00-4	73	%	84	%	73	%	80	%	79	%	78	%

÷
÷
as received wet weight
)H/ASTM D62520-00 ASTM D6520-00



Depth		014.00		018.00		020.00	
Sample Name	CAS #	5-4-14		5-4-18		5-4-20	
Analysis Date		08/13/14 20:40	Ν	08/14/14 10:51	Ν	08/14/14 11:09	Ν
Vinyl Chloride	75-01-4	88.9	U	83.3	U	78.9	U
trans-1,2-Dichloroethene	156-60-5	88.9	U	83.3	U	78.9	U
cis-1,2-Dichloroethene	156-59-2	88.9	U	83.3	U	78.9	U
Trichloroethene	79-01-6	29.8	J	83.3	U	583	
Tetrachloroethene	127-18-4	75.1	J	83.3	U	237	
Bromofluorobenzene (SS)	460-00-4	75	%	79	%	79	%

Laboratory Unit:	ML2			
Client:	Parsons	Report Date:	8/22/2014	
Location:	Rome, NY	Date(s) Sampled:	08/13/2014 - 08/13/2014	
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/13/2014 - 08/14/2014	
SEI Project No .:	14-152	Test Method:	8260C	
Matrix:	Soil	Results Given as:	ug/kg	as received wet weight
Location ID:	5-5	Prep Method:	Soils (SW), EPA 5035A0H	H/ASTM D62520-00
			Ground Waters (NPW), A	STM D6520-00



Depth		009.00		013.00		018.00	
Sample Name	CAS #	5-5-09		5-5-13		5-5-18	
Analysis Date		08/13/14 21:32	Ν	08/13/14 21:49	Ν	08/14/14 11:26	Ν
Vinyl Chloride	75-01-4	90.6	U	78.7	U	75.9	U
trans-1,2-Dichloroethene	156-60-5	90.6	U	78.7	U	75.9	U
cis-1,2-Dichloroethene	156-59-2	90.6	U	78.7	U	75.9	U
Trichloroethene	79-01-6	90.6	U	78.7	U	602	
Tetrachloroethene	127-18-4	90.6	U	78.7	U	58.1	J
Bromofluorobenzene (SS)	460-00-4	72	%	75	%	78	%

Laboratory Unit:	ML2		
Client:	Parsons	Report Date:	8/22/2014
Location:	Rome, NY	Date(s) Sampled:	08/14/2014 - 08/14/2014
Project ID:	Parsons GAFB	Date(s) Analyzed:	08/15/2014 - 08/15/2014
SEI Project No .:	14-152	Test Method:	8260C
Matrix:	GW	Results Given as:	ug/L as
Location ID:	MH	Prep Method:	Soils (SW), EPA 5035A0
			Cround Waters (NDW)

Dept	h	000.01	
Sample Nam	e CAS #	MH-2	
Analysis Dat	e	08/15/14 01:18	Ν
Vinyl Chloride	75-01-4	2.00	U
trans-1,2-Dichloroethene	156-60-5	2.00	U
cis-1,2-Dichloroethene	156-59-2	2.00	U
Trichloroethene	79-01-6	3.74	
Tetrachloroethene	127-18-4	4.60	
Bromofluorobenzene (SS)	460-00-4	76	%

dry weight H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00



# APPENDIX C DAILY FIELD REPORTS

## DAILY FIELD REPORT

JOB NAME	GAFB OBGW	DATE	July 12, 2014
CONTRACT	W912DQ-06-D-0012	REPORT NO.	LF-6- DFR-071214
PROJECT	Former Griffiss Air Force Base	WEATHER	Sunny, warm, 80s
JOB #	746809	TEMPERATURE	AM 70 / PM 80
CLIENT	AFRPA/USACE	TIME/HRS	0800-1100

#### PERSONNEL ONSITE

Dale Dolph	Parsons - Site Manager
Mark Mondak	Parsons
John Lanier	Parsons PM

#### **EQUIPMENT ON SITE**

Hertz F-150 P/U Smoke Testing Equipment

#### MATERIALS DELIVERED TO/OR REMOVED FROM THE SITE

#### None

#### WORK IN PROGRESS OR COMPLETE:

 Parsons team conducted a smoke test of the 1.5-inch sump discharge line from the sump located in the center south portion of B817. The sump line transitions to a 4-inch line as it goes away from the sump. Sewer testing smoke candles were lit and inserted into the pipe and a blower applied to the discharge pipe. Smoke candles were applied three times over an hour's time. Smoke was observed coming from three floor drains within the building (front OH door and two former rest rooms). Where the smoke was anticipated to be observed was the B816 lift station where the sump was expected to drain to. There was no evidence that the sump drain goes to this location. Smoke was not observed coming from the ground or any other location outside B817. The results of the smoke test were inconclusive.

#### VERBAL DISCUSSIONS/INSTRUCTIONS:

1) DRD contacted Griffiss Flightline Security and notified them that the smoke test would be performed.

#### H&S ISSUES:

- 1) AHA for "Smoke Testing" covered with crew prior to testing activities.
- 2) PID readings collected inside sump area and pipe to be tested. All readings 0.0 PPM.

#### ACCIDENTS REPORTED TODAY: **0** NEAR MISSES REPORTED TODAY: **0**

### **DEFICIENCIES/CORRECTIVE ACTIONS**

1) None.

#### ATTACHMENTS

- 1) Photo of B817 sump and line breach.
- 2) Photo of B817 smoke from floor drain east of sump.

#### PARSONS REPRESENTATIVE

DFR071214.docx



## DAILY FIELD REPORT PHOTO LOG



View of B817 sump and line breach to facilitate smoke test.



View of B817 smoke test smoke coming from floor drain to east of sump pit room.

#### PARSONS

#### **DAILY FIELD REPORT**

JOB NAME	Building 817	DATE	8-11-14
CONTRACT		REPORT NO.	DFR SILIY
PROJECT	Former Griffiss Air Force Base	WEATHER	SUNNY
JOB #	746809	TEMPERATURE	84
CLIENT	AFRPA/USACE	TIME/HRS	8730 -

H&S Topic:

#### PERSONNEL ONSITE Name Company **Purpose On-site** John Werkiel PADLET MANAGER 0.130125 SSG and GEDICENST Mar STENE CHEMISTRY DA/OC GED (HEMISTR Alison Jordon Mike Rossi i i som Stone 1000 USACE

#### EQUIPMENT USED ONSITE

Equipment	Model/Type	Quantity	Work Force/Trade	Quantity
GED PROBE	1822 DT	l	2	1
GENGRATOR	SUNGLET	1	٥	i
MOBILE LAM	STONE	1	1	1

MATERIALS DELIVERED TO/OR REMOVED FROM THE SITE

Material Removed/Delivered	Quantity	Source	Unit
nlA			
10			

#### DEFICIENCIES/CORRECTIVE ACTIONS

Description of Deficiency	Corrective Action

Work in progress or complete: TRANSECT 1 6 BORINGS COMPLETE TO SAMPLEJ TRANSECT 2 4 BORINGS COMPLETE TO Source

Verbal Discussions/Instructions:

ACCIDENTS REPORTED TODAY: NEAR MISSES REPORTED TODAY:

REPRESENTATIVE

C:\Users\p0094986\Desktop\OBGW 2013 Injections Procurement\OBGW LF 6 QCFP\LF 6 QCFP 2013\Attachment 2\DFR.doc

## DAILY FIELD REPORT PHOTO LOG

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recover.dwg 06/09/2014 11:00AM SEH

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### MOBILIZATION/DEMOBILIZATION CHECKLIST

### Project Name/Number: Griffiss AFB Building 817, PN 746809

Site: Building 817

Mobilization complete one time at the beginning of the project. Demobilization complete one time at the end of the project. Answer each question by checking the appropriate column (yes, no, or N/A). If a No is checked, provide explanation on the Noncompliance and Corrective Actions form.

	Site Access and Security	Yes	No	<u>N/A</u>
1.	Has a copy of the Right of Entry Permit(s) been received?	i s		
2.	Are the time frames on the Right of Entry Permits adequate for the entire job including IDW disposal?	P.		
	Permits and Licenses			
3.	Are all subcontractors licensed to operate in the state?	6		
4.	Are license numbers of subcontractors recorded in the project files?	E.		
5.	Have subcontractors provided proof of insurance?	D		
6.	Have variances been obtained from the state?			4
If ye	es, provide a list of variances obtained:			
	<b>Coordination with Property Owners and Tenants</b>			
		,		
7.	Has the property owner been contacted?	Y		
8.	Did the property owner designate a contractor staging area?			
9.	Did the property owner approve a source for water?			

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## MOBILIZATION/DEMOBILIZATION CHECKLIST

### **Coordination with Environmental Authorities**

			./
10.	Has the State approved the RAWP Addendum?		0
11.	Has USEPA approved the RAWP Addendum?		Ý
	Safety Planning and Equipment	,	
12.	Have all personnel read and signed the APP/SSHP?	b/	
13.	Was the local hospital contacted to verify the phone number and address?	V	
14.	Are all training certificates current?		
15.	Are all MSDSs in a file on-site?	$\mathbf{k}$	
16.	Are all required instruments reserved and complete with calibration standards and manuals?	$\checkmark$	
17.	Do the instruments meet manufacturer maintenance and calibration standards?	V	
	Logistical Planning Complete within 1 week of notice to proceed.		
18.	Has the APP/SSHP been approved by Health and Safety Services?	Ċ	
19.	Has notice to proceed from the USACE been received?	Y	
20.	Are the project personnel available and scheduled?	P	
21.	Has USACE been notified of schedule?	Ver	
	Environmental Site Protection		
22.	Is work area limited to prevent property damage?	$\checkmark$	
23.	Is IDW area greater than 100 feet away from a major stream, tributary, or drinking water well?	$\nabla$	
24.	If field activities damage property, will measures be taken to restore the Site (explain below)?		
-			

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## MOBILIZATION/DEMOBILIZATION CHECKLIST

### **Demobilization**

<ul><li>27. Did the site point of contact inspect the site?</li><li>28. Was the integrity of each drum of IDW inspected?</li></ul>		
<ul><li>26. Was each work area policed for trash?</li><li>27. Did the site point of contact inspect the site?</li></ul>		
25. Was the site returned, as much as possible, to its original condition?		

Parsons Representative Signature: _	 10-31-00-00 10-31-00-00
Printed Name and Title:	 

Date: _____

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FORMER GRIFFISS AIR FORCE BASE

### FORMER GRIFFISS AIR FORCE BASE OBGW BUILDING 817 DAILY SIGN-IN SHEET

				PHONE	TIME	TIME
DATE	NAME (Print)	SIGNATURE	COMPANY	NUMBER	IN	OUT
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	Pro- inve					
	OPIN					
					20.000	
	Sicen					
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8-11-14	Ian Boinen	1/2		316 841 4649	1500	1730
	$\sim$					
		10				
	-					

## DAILY SAFETY MEETING SIGN-IN SHEET

Safety Meeting Presenter: Joith LAWIER Date: 8-11-14
Current Weather Conditions:
Temperature (°F) = $57$ Wind Direction = Wind Speed = $10$
Clear Sunny-Cloudy – Rain - Snow Forecast = $Dry$
<u>Current Site Conditions (circle as appropriate)</u> : Dry - Wet - Muddy - Frozen - Snow Covered - Other (describe)
1. Incidents or Injuries to report from Previous Day Activities: No Yes - explain below:
2. Safe and/or At-Risk Observations from Previous Day Activities:
3. Activities Taking Place Today: GEOPLOBE OPS, SAMPLING, LAB
3. Anticipated Hazards: Insects (ticks), heart
4. Engineering Controls-Work Practices-PPE to Protect Against Hazards: Water, break, Wreet repetient
5. Additional Safety Topic or Comments: Reviewed APP, Chemister
y on - pow there is

## HEALTH AND SAFETY CHECKLIST (Fill out Daily)

Project Name/Number: Building 817, PN 746809 Site: Griffiss AFB Date: Personnel

Observed and Locations:

Complete weekly for each site. Answer each question by checking the appropriate column (yes, no, or N/A). If a No is checked, provide an explanation on the Noncompliance and Corrective Actions form.

De	ocumentation	Yes	<u>No</u>	<u>N/A</u>
1.	Is the APP/SSHP on-site?	ŧ		
2.	Has the APP/SSHP been reviewed, dated, and signed within the last year?	₽∕		
3.	Are the tasks being completed reflected in the hazard task analysis?	b/		
4.	Is there a written acknowledgement that all employees, including subcontractors have been briefed and read the APP/SSHP?	Y		
5.	Are the following training records current and available in the field:			
	• 40-Hour HAZWOPER/8-hour refresher for ALL employees and subcontractors?			
	• 24 Hours Supervised Field Experience?			
	• 8-Hour HAZWOPER Annual Refresher?			
	• CPR/First Aid?			
	• 8-Hour Hazardous Waste Site Supervisor, and refresher?			
	• Initial Site Health and Safety Briefing?			
	• Site Health and Safety Briefing for each location or site?	5		
6.	Are emergency maps posted at the Site and maintained in vehicles?	P		
7.	Was the route to the hospital driven prior to beginning field work?	V		
8.	Was the hospital ER/EMS informed of the work, dates and times of field operations, and provided a map to the site?			
		Yes	<u>No</u>	<u>N/A</u>

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## HEALTH AND SAFETY CHECKLIST

9. Were daily safety checklists completed and fire extinguishers checked?	F		
10. Were applicable MSDSs at the Site?	$\checkmark$		
11. Are documents current and available that indicate employees and subcontractors are medically fit to work and wear the required personal protective equipment?	₹⁄		
Observations			
12. Is required personal protective equipment available and correctly used, maintained, and stored?	$\forall$		
13. Is the following emergency equipment located at each site:	Ū,		
• Fire extinguisher?	Y		
• Eyewash (15 minutes fresh water)?	V		
• Communications (walkie-talkie or phone)?	V		
• First aid kit?	br.		
14. Is the buddy system in use?	6		
15. Is the site organized to allow the use of lifting equipment, and avoid tripping hazards and spreading contamination?	ł		
16. Was a random employee asked if he/she know site hazard and emergency procedures?			
The Parsons Representative shall sign this thecklist upon completion of all iten	is on the c	hecklist.	
Parsons Representative Signature:	n		
Printed Name and Title: John Layer Mo, VI	ngr		
Date: $\frac{S/II}{I4}$	U		

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## PROJECT ORIENTATION ATTENDANCE SHEET TO BE COMPLETED ONE TIME AT START OF PROJECT

## (FOR ALL PARSONS EMPLOYEES ON SITE)

I hereby confirm that site / task-specific health and safety training has been conducted by the site health and safety officer which included:

- · Names of personnel responsible for site safety and health
- · Safety, health, and other hazards at the site
- · Proper use of personal protective equipment
- · Work practices by which the employee can minimize risk from hazards
- · Safe use of engineering controls and equipment on the site
- · Acute effects of compounds at the site
- · Decontamination procedures

For the following project:

Building 817	746809	Rome, New York		
(Project Title)	(Project Number)	(City, State)		

Jehn Lanier Aler PARSONS 81	11/14
Chas Aldrich Challe store \$1,	1/14
Matt Millard Matthew Untre SEI 81	11/14
buther Lorson, Letter SEI SI	11/14
OMahan 1 Kossi and R SEI 811	NA
Allison allin Jorles Parsons 8,	11/14

Maintain in Health & Safety Plan file.

(Use additional sheets if necessary)

Equipment type	620	provi	٤	-			21 1
Equipment ID	George	obe	782	210T			Week Ending: 81519
	1						
Visual Inspection	Mon	Tue	Wed	Thu	Fri	Sat	Repairs Needed/Report to Foreman Daily
Attachments							
Batteries							
Belts-Hoses*							
Blade-Bucket-Drum							
Bucket-Ripper Teeth							
Cab Glass†							
Cable hooks-latches	2						1
Coolant-radiator*							
Cutting edges							
Decals-Numbers	V						
Exhaust-Muffler	~						
Fire Extinguisher [‡]	/						
Fuel-Grease-Oil*							
Leaks							
Loose Bolts, etc.							
Mirrors [†]							
Paint							
Seat-arm rests							
Tinware–Guarding							
Tires-Tracks							
Undercarriage							
Underguards							
Operation Test	Mon	Tue	Wed	Thu	Fri	Sat	Repairs Needed/Report to Foreman Daily
Attachments		lum of m					
Brakes-Steering*							
Bucket–Positioners							
Charging System							
Controls-Linkages							
Gauges*							
Starting System							
Transmission							

#### **Operation Test** Mon Tue Wed Thu Fri Sat Repairs Needed/Report to Foreman Daily Backup Alarm Driver/Operator Initials Horn(s) Lights* Radios

*Acceptable operating parameters can be found in the operating manual of the equipment. Compare inspection results to operators manual to ensure proper operation of the equipment.

[†]Cab glass must be made of safety glass and have no cracks. Mirrors must be installed and in good repair.

‡Remove fire extinguishers once per week, shake them upside down until the contents can be felt moving, and then reinstall.



Equipment type

Revision No.:	0	Page:	1 of 2	Issue Date:	7/14/2006
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# **Daily Equipment Safety Inspection Checklist** Geographe

<b>Daily Equipment</b>	Safety	Inspection	Checklist
------------------------	--------	------------	-----------

Dav	Hours	Last Svc. Hours	Miles/other	Date/Svc Performer
Mon		The set		(a) 2 AM
Tues	sacces in the			- 0/201-1
Wed				
Thu				
Fri				
Sat			1	
out				
Comments:		al and a set of a		
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		1114 at 111		
	- Wertstate -	and the second second	<b>D</b> 1	
Review Signature			Date	
Review Signature			Date	
Review Signature		2	Date	
Review Signature		) 	Date	
Review Signature		· · · · · · · · · · · · · · · · · · ·	Date	
Review Signature			Date	
Review Signature			Date	
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Review Signature			Date	
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Review Signature				Car Start E 17

C.\USERS\P0094986\DE5KTOP\OBGW 2013 INJECTIONS PROCUREMENT\OBGW LF6

### DAILY FIELD REPORT

JOB NAME	Building 817	DATE	8-12-14
CONTRACT		REPORT NO.	DFR 81214
PROJECT	Former Griffiss Air Force Base	WEATHER	RAIN /Pt Cloudy
JOB #	746809	TEMPERATURE	65
CLIENT	AFRPA/USACE	TIME/HRS	0730 - 1820

H&S Topic:

#### PERSONNEL ONSITE

Name	Company	Purpose On-site
John Lanier	Persons	Proj Mar
Allison Jordan	Parsons	Geologist
lan Bowen	USALE	Geologist / Overtht QA
Jim Schentz	Parsons	Hydrogeologist

#### EOUIPMENT USED ONSITE

Equipment	Model/Type	Quantity	Work Force/Trade	Quantity
Geoprobe.	1822 DT	)	OPERATOR 3	2
Mobile Lab	STONE	1	CHEMIST	)
portable Gen	Sun belt	1	D	

#### MATERIALS DELIVERED TO/OR REMOVED FROM THE SITE

Material Removed/Delivered	Quantity	Source	Unit
NA			

### DEFICIENCIES/CORRECTIVE ACTIONS

Description of Deficiency	Corrective Action

Work in progress or complete:

Transat 2, Transact 3

Verbal Discussions/Instructions:

ACCIDENTS REPORTED TODAY: NEAR MISSES REPORTED TODAY: 0 D

PARSONS REPRESENTATIVE

## DAILY FIELD REPORT PHOTO LOG





FORMER GRIFFISS AIR FORCE BASE

• • •

### FORMER GRIFFISS AIR FORCE BASE OBGW BUILDING 817 DAILY SIGN-IN SHEET

				PHONE	TIME	TIME
DATE	NAME (Print)	SIGNATURE	COMPANY	NUMBER	IN	OUT
8-1214	In Bowen	Contact	LISACE	316 841 4649	0730	
8-12-14	Letter Larses	Rother	Stone	802 793 0964	0750	J
8-12-14	Allison Jordan	allein Juden	Parsons	315-414-8445	0730	
0/12/14	Mathew Millard	Mitthew Mith	Stone	802-279-950	0730	
8-12-1	+ Johnhanier	gen	Carron	716 998 348	50730	
8-12-14	James Schvetz	Junut	Parsons	716 5238293	1750	
		· /)				
		U				

## SAFETY MEETING SIGN-IN SHEET

PRINTED NAME	SIGNATURE	COMPANY
Chas Aldrich	Chald.	Sitone
Matt Millard	Mat Mol-	Stone.
Lutter Lorsen	Lutha Lama	Stone
Allison Jordan	attein Judan	Parsons
Jan Bonch	A	LISACE

## DAILY SAFETY MEETING SIGN-IN SHEET

Safety Meeting Presenter: John Lamin Date: 8/12/14
Current Weather Conditions:
Temperature (°F) = $\frac{70}{100}$ Wind Direction = $5000000000000000000000000000000000000$
Clear - Sunny – Cloudy – Rain - Snow Forecast = $\frac{1}{2}$
Current Site Conditions (circle as appropriate): Dry Wet - Muddy - Frozen - Snow Covered - Other (describe)
1. Incidents or Injuries to report from Previous Day Activities: No Yes - explain below:
2. Safe and/or At-Risk Observations from Previous Day Activities:
Hornety Smake, Trip harards
3. Activities Taking Place Today: <u>Geographic Samplin</u> , Lab analysin
3. Anticipated Hazards: Trips, Rain Thursder Jughting
4. Engineering Controls-Work Practices-PPE to Protect Against Hazards:
5. Additional Safety Topic or Comments: Fatalities prevention, leghtning dull
/ / /

### DAILY FIELD REPORT

JOB NAME	Building 817	DATE	8-13-14
CONTRACT		REPORT NO.	DFR 81314
PROJECT	Former Griffiss Air Force Base	WEATHER	RAIN/CLOUDS
JOB #	746809	TEMPERATURE	76
CLIENT	AFRPA/USACE	TIME/HRS	0730 - 1730

H&S Topic:

#### PERSONNEL ONSITE Name Company **Purpose On-site** John Larver LErsons ursens Allison. arden RIGONS logist 1SALE Dowen OVENSIS an

#### EOUIPMENT USED ONSITE

Equipment	Model/Type	Quantity	Work Force/Trade	Quantity
Geomobe	7821 DT	1	OPENATO25	2
Mobile Lab	STONE		CHEMIST	)
Boteble Gen Set	Sunbelt	1	Ð	

#### MATERIALS DELIVERED TO/OR REMOVED FROM THE SITE

Material Removed/Delivered	Quantity	Source	Unit
Nome			

#### DEFICIENCIES/CORRECTIVE ACTIONS

Description of Deficiency	Corrective Action
	-1

Work in progress or complete: Transect 4 Transect 5 Heulfhand Safety Luncheon 1200 Mrg. Verbal Discussions/Instructions: USACE Inspection

ACCIDENTS REPORTED TODAY: NEAR MISSES REPORTED TODAY:

Ð 0

PARSONS REPRESENTATIVE

## DAILY FIELD REPORT PHOTO LOG



FORMER GRIFFISS AIR FORCE BASE

## FORMER GRIFFISS AIR FORCE BASE OBGW BUILDING 817 DAILY SIGN-IN SHEET

	1.]			PHONE	TIME	TIME
DATE	NAME (Print)	SIGNATURE	COMPANY	NUMBER	IN	OUT
81314	Allison Jordan	aller Jode	Parsons	315-414-5445	0730	0530
8/13/14	Ian Bomen	6122	INSTEE	316-841-41049	0730	
8113/14	Chas Adreh <	chan	Store	8023431422	0730	
8/13/14	Lufter Larsen	Lotton fam,	Stone	802 793 0964	0.830	
8/13/141	Matthew Millard	Matthew Mill?	Stone	802-279-950	6 083	
SIBIL	An	John Concer	Parsan	716 448 348	- 0750	
01.1.	19					
	U					
	and the second as					

## SAFETY MEETING SIGN-IN SHEET

PRINTED NAME	SIGNATURE	COMPANY
Allison Jordan Tan Borner Chris Aldorch Luther Larser Matthew Millard John Lamo	Alin Joden Chalin Lather Thill I Matthew Will I	Parsons USACE Stone Stone Stone Parson
~	s	

## DAILY SAFETY MEETING SIGN-IN SHEET

Safety Meeting Presenter: Jehn Carrier Date: 8/13/2014
Current Weather Conditions:
Temperature (°F) = $45$ Wind Direction = Wind Speed =
Clear - Sunny - Cloudy - Rain - Snow Forecast = SCATTBELD SHOWERS
Current Site Conditions (circle as appropriate): Dry-Wet-)Muddy - Frozen - Snow Covered - Other (describe)
1. Incidents or Injuries to report from Previous Day Activities: No Yes - explain below:
2. Safe and/or At-Risk Observations from Previous Day Activities: Improve
traffic control,
3. Activities Taking Place Today: <u>CEOPROBE</u> Soil Borinkis,
WATER SAMPLES
3. Anticipated Hazards:MPS hall,
4. Engineering Controls-Work Practices-PPE to Protect Against Hazards:
5. Additional Safety Topic or Comments: Hund protection

Circle one:	/ Initial	Follow-up	
Date: 4	-13-14	Job No. Gaffiss AF	Project ID:
Definable Featur	re: Direct Pus	52 Storl SEMPLING	<u> </u>
Spec Section:	ine a mile	Marro Lore /	WC5 SOP
Drawing(s):	_ Octop the		
Description and	location of work inspec	cted: Transect 5	Borna 21
	an ann an an ann ann ann an ann an ann an a		
			·····
		-	
Personnel prese	ent: Name		Company
TING	Gold C		Decesa
All	TI		0
11130n	-hiden		raisons
Chris	Aldrich		Stone Environmental
Luther			Stone Environmental
Tim Romer	<b>h</b>		VSACE
Tin Ki	Luetz		Philippi
Vaterials used a Comments: ( Acetnic	beepshe Sampli biners nure	contract plans and specifica by tube, oils, in used. 40 ml	tions: Ves No ner rols nere used Viels with methanol
Materials used a Comments: ( Acetare and G	ire in compliance with c (seppose Samply hincos nore ming syning-1	contract plans and specifica by tube, obs, in used. 40 ml	itions: Ves No ver rols were ised Viels with methanol
Materials used a Comments: ( Acethe and G ² rocedures and wor	k methods witnessed are in	contract plans and specifica w tube, wis, in used. 40 ml compliance with contract plans a	itions: (res) No Ner rols were insel Vials with methanol and specifications: (res) No
Materials used a Comments: ( Acetate and G Procedures and wor Comments: (	k methods witnessed are in	contract plans and specifica where the poils, in where the poils, in where the plans and specifica compliance with contract plans a why soft	tions: Ves No ver rols vere used Vials with methanol and specifications: (Ves No eg is of appropriate de
Materials used a Comments: ( Acetate and G Procedures and wor Comments: ( and 54,0	k methods witnessed are in Sen 13 June 3 Ampli hiners mere hiners mere hiners mere hiners holds k methods witnessed are in Sen 13 follow	contract plans and specifica by tube, wis, in used. 40 ml compliance with contract plans a wing Sof L wrechty	itions: (res) No ver rols vere ised Vials with motheral and specifications: (res) No og is of appropriate de
Materials used a Comments: ( Acetate and (a Procedures and wor Comments: (	k methods witnessed are in Septrate Sampli hincis nice ning syring-1 k methods witnessed are in Sew is follow plas are collected	contract plans and specifica by tube, outs, in used. 40 ml compliance with contract plans a wing Sof L gd Wmcuty	itions: (es) No ver rols vere used Viets with methenol and specifications: (res) No og is of appropriate de
Materials used a Comments: ( Acethre and ( Procedures and wor Comments: ( and 54,0	ire in compliance with c (Septrobe Sampli) hincos nure rim syring=1 k methods witnessed are in ren is follow ples are collecte accentable:	contract plans and specifica y tube, wis, in used. 40 nl compliance with contract plans a wing Sof L ed wrectry	tions: Ves No ver rols vere used Vials with methanol and specifications: (Ves No og i) of appropriate de
Materials used a Comments: ( Acetare and (a Procedures and wor Comments: ( Mark 4 a Workmanship is	ire in compliance with c (Seppose Sampli) hincos nore rim syninger k methods witnessed are in Sew is follow plas are collector acceptable: (re	contract plans and specifica by tube, wis, in used. 40 ml compliance with contract plans a wing Sof L ed writery No	itions: (es) No ver rols were used Vieils with methenol and specifications: (res) No og is of appropriate de
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Materials used a Comments: ( Acethre and ( Procedures and wor Comments: ( Workmanship is Comments:	acceptable:	contract plans and specifica y tube, wis, in used. UU n compliance with contract plans a wing Sof. L when y No	tions: (es) No ver rols vere used Vials with methanol and specifications: (res) No og i) of appropriate de
Materials used a Comments: ( Acethre and (a Procedures and wor Comments: ( Workmanship is Comments:	acceptable:	contract plans and specifica w tube, wis, in used. 40 ml compliance with contract plans a wing Sof L wing Sof L wing No	ntions: (es) No ver rols were used Viets with method and specifications: (res) No og is of appropriate de appropriate de
Materials used a Comments: ( Acethre and G Procedures and wor Comments: ( Workmanship is Comments: Comments:	re in compliance with c (Septrobe Sampli) hinces nere ming syringer k methods witnessed are in Sew is follow ples are collecte acceptable: re second for a second for	contract plans and specifica in tube, ords, in in sect. 40 ml compliance with contract plans a wing Sof L ed with contract plans a wing No sol No	ntions: (es) No ver rols were used Viels mith methenol and specifications: (res) No og is of appropriate de appropriate de milles taken for VOC
Materials used a Comments: ( Acethre and the Procedures and wor Comments: ( and 54,0 Workmanship is Comments: Note any tests, o and by the	acceptable:	contract plans and specifica y type, wis, in y contract plans a wing Sof L wreatly sol wreatly sol No equirements, etc.: San and 18.	ntions: Ves No ver rols vere used Viels with methanol and specifications: (Ves No og i) of appropriate de appropriate de milles taken for VOC
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Materials used a Comments: ( Acethre and (A Procedures and wor Comments: ( Workmanship is Comments: Note any tests, o And by 40	acceptable:	contract plans and specifica w tube, wis, in used. 40 ml compliance with contract plans a wing Sof. L ed writery sol No equirements, etc.: Sa. and 18.	ntions: (es) No ver rols were used viets with methical and specifications: (res) No og is of appropriate de appropriate de milles taken for VOC
Materials used a Comments: ( Acethre and ( Procedures and wor Comments: ( and 54,0 Norkmanship is Comments: Note any tests, o Comments:	acceptable:	contract plans and specifica w tube, wis, in used. UU n compliance with contract plans a wing Sof. L ed wreatly ss No equirements, etc.: San and 18.	ntions: (es) No ver rols vere used Viols with method and specifications: (res) No og i) of appropriate de appropriate de milles taken for VOC
Materials used a Comments: ( Acethre and (a Procedures and wor Comments: ( Morkmanship is Comments: Norkmanship is Comments:	acceptable:	contract plans and specifica y tube, wis, in used. UU n compliance with contract plans a wing Sof wreatly s No equirements, etc.: Sa and 18.	ntions: (es) No ver rols were used Viels with methanol and specifications: (res) No og is of appropriate de appropriate de myltes taken for VOC

5

### DAILY FIELD REPORT

JOB NAME	Building 817	DATE	8-14-2014
CONTRACT		REPORT NO.	DFR 8142014
PROJECT	Former Griffiss Air Force Base	WEATHER	Rainy Pt Cloudy
JOB #	746809	TEMPERATURE	60 1
CLIENT	AFRPA/USACE	TIME/HRS	0730 - 1730

H&S Topic:

#### PERSONNEL ONSITE

Name	Company	Purpose On-site
John Lamer	Parsons	Boy dar.
Allison Jordan	Parsons	Geologist
lan Bowen	USALE	Geologist/ RC DULVSight

#### EOUIPMENT USED ONSITE

Equipment	Model/Type	Quantity	Work Force/Trade	Quantity
Geoprobe	7822 07	· · · · · · · · · · · · · · · · · · ·	OPERATORS	2
Generator	Subalt	2	6	
Mobile Las	stone		Chemist	1
	51	1. A A A A A A A A A A A A A A A A A A A		-

#### MATERIALS DELIVERED TO/OR REMOVED FROM THE SITE

Material Removed/Delivered	Quantity	Source	Unit
NA	-	°	

#### DEFICIENCIES/CORRECTIVE ACTIONS

	IT DITOTIONS
Description of Deficiency	Corrective Action

Work in progress or complete: Finish Transect 5 1 Gw Sampling

Verbal Discussions/Instructions:

ACCIDENTS REPORTED TODAY: NEAR MISSES REPORTED TODAY:

6 D

John La

PARSONS REPRESENTATIVE

## DAILY FIELD REPORT PHOTO LOG



## DAILY SAFETY MEETING SIGN-IN SHEET

Safety Meeting Presenter: John Lanix Date: 8/34/2014
Current Weather Conditions:
Current Weather Conditions.
Temperature ( $^{\circ}F$ ) = $\checkmark$ Wind Direction = Wind Speed =
Clear - Sunny – Cloudy – Rain - Snow Forecast = Shawers
Current Site Conditions (circle as appropriate): Dry Wet - Muddy - Frozen - Snow Covered - Other (describe)
1. Incidents or Injuries to report from Previous Day Activities. No Yes - explain below:
2. Safe and/or At-Risk Observations from Previous Day Activities: Stake Sigus be
the road way, careful with places
3. Activities Taking Place Today: Soil boring Sampler Warter
Sampling
3. Anticipated Hazards: <u>Slips</u> , bees
4. Engineering Controls-Work Practices-PPE to Protect Against Hazards: Level D modulied
5. Additional Safety Topic or Comments: <u>3 rohen window observe</u> Site Salety vuler, AHA When Chaning activitie

## SAFETY MEETING SIGN-IN SHEET

PRINTED NAME	SIGNATURE	COMPANY
Allison Jordan	allin Jude	Parsons
ChrisAldach	Ch ahr	Store
Matt Millard	Mathew Milla	Stone
In Bonn	2000	USACE
Luther Lowan	Fertan	Store.
John Louis	di-	Parsonn
	4	
2 		
		2

FORMER GRIFFISS AIR FORCE BASE

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## FORMER GRIFFISS AIR FORCE BASE OBGW BUILDING 817 DAILY SIGN-IN SHEET

				PHONE	TIME	TIME
DATE	NAME (Print)	SIGNATURE	COMPANY	NUMBER	IN	OUT
8 14/14	Allison Jordan	allen Juda	Parsons	315-414-8445-	0730	
\$14/14	Chors Aldrich	Ch ality 12 1	Store	8023431422	0730	
8/14/14	MatthewMilland	Meetinger Million	stone	802279956	0750	
8114/14	For Borres	Car	INSACRE	3168414649	0720	
eri4n4	Enther Lorseve	Atthe	stone	8027930969	0730	
8/14/14	John harrier	Aler	Pauson	7169983485	6770	
		0				

PARSONS

### **DAILY FIELD REPORT**

JOB NAME	Building 817	DATE	8/15/2014
CONTRACT		REPORT NO.	DFR XISIY
PROJECT	Former Griffiss Air Force Base	WEATHER	RAIN.
JOB #	746809	TEMPERATURE	SSF
CLIENT	AFRPA/USACE	TIME/HRS	0730 - 1500

H&S Topic:

no Proj Mar
A Carlint
E Geologist - QC Oversiget

#### EQUIPMENT USED ONSITE

Equipment	Model/Type	Quantity	Work Force/Trade	Quantity
Geoprobe	7822 DT	1	2 Operators	
Portable Consolates	Surbilt	1	٥	
Stone Mobile Lab		1	1 Clernist	

#### MATERIALS DELIVERED TO/OR REMOVED FROM THE SITE

Material Removed/Delivered	Quantity	Source	Unit
NA			

#### DEFICIENCIES/CORRECTIVE ACTIONS

Description of Deficiency	Corrective Action
1	
	But Bis

Work in progress or complete:

Transect I aw Samples, Transect (- BID work completed \$400 hrs. t Gw

Verbal Discussions/Instructions:

ACCIDENTS REPORTED TODAY: NEAR MISSES REPORTED TODAY:

0

PARSONS REPRESENTATIVE

## DAILY FIELD REPORT PHOTO LOG



# SAFETY MEETING SIGN-IN SHEET

PRINTED NAME	SIGNATURE	COMPANY
ChrisAldrich	Chale	Store
Luther Larser	Jakton	Stone
Allison Jordan	allien Juden	Parsons
MatthewMillard	Mathew Midda	5pne.
Ian Bora		USACE
John Lamier	De-	Porson
	· · · · · · · · · · · · · · · · · · ·	
		293 1 25.7.2
FORMER GRIFFISS AIR FORCE BASE

### FORMER GRIFFISS AIR FORCE BASE OBGW BUILDING 817 DAILY SIGN-IN SHEET

DATE     NAME (Print)     SIGNATURE     COMPANY     NUMBER     IN     OUT       SISING     Marson's     315414-44415     0730       SISING     Marson's     315414-4445     0730       SISING     Marson's     315414-444     0730       SISING     Marson's     315414-444     0730       SISING     Marson's     315414     0730       SISING     Marson's     Store     31031442     0730       SISING     Marson's     Marson's     31031444     0730       SISING     Lores     Marson's     Store     31031444     0730       SISING     John Lores     Lores     Store     31031444     0730       SISING     John Lores     Lores     Store     31031444     0730       SISING     John Lores     Lores     Store     3103444     0730       SISING     John Lores     Lores     Store     30730     315       SISING     John Lores     Lores     Inc.     Inc.     Inc.       Inc.     Inc.     Inc.     Inc.     Inc.     Inc.       Inc.     Inc.     Inc.     Inc.     Inc.     Inc.       Inc.     Inc.     Inc.     Inc.     Inc. <t< th=""><th></th><th></th><th></th><th></th><th>PHONE</th><th>TIME</th><th>TIME</th></t<>					PHONE	TIME	TIME
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2/15/14 Chris Aldrich Christian Store Song/3/422 0730 B/15/14 Muthen Millard Muther Some Bal 274950 0730 S/15/14 Latter Lorsen Langener Store SOZ7730960 0250 S/15/14 Latter Lorsen Langener Store Ve 968 5485 0730 S/15/14 Latter Lorsen Langener Store Ve 968 5485 0730 S/15 John Lanier Jun Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine Versine	81514	AHIISON JORELGH	Allingal	Parsons	315-414-84-15	0730	<u>(</u>
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2/15/14       Jon Bour       Cittor       NALE       31694114649       0730         8/15/14       Latter Lorsen       Latter Lorsen       Latter Corsen       Sfore       8027730969       0730         8/15       John Lomier       Ju       Parsine       16998 3485       0730         9/15       John Lomier       Ju       1       1       1                 9/15       John Lomier       Ju       1       1       1       1       1       1         9/15       John Lomier       Ju       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	8/15/14	Mathew Millard	Muethin Mill &	Stone	8022799506	0730	
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## DAILY SAFETY MEETING SIGN-IN SHEET

Safety Meeting Presenter: J. Can in Date: 8/15/14
Current Weather Conditions:
Temperature (°F) = $\underline{SS}$ Wind Direction = $\underline{S}$ Wind Speed = $\underline{S}$
Clear - Sunny Cloudy - Rain - Snow Forecast = Scattered Showers
Current Site Conditions (circle as appropriate): Dry-Wet Muddy - Frozen - Snow Covered - Other (describe)
1. Incidents or Injuries to report from Previous Day Activities No Yes - explain below:
2. Safe and/or At-Risk Observations from Previous Day Activities: <u>Barrels</u>
road barrier, slips, trips, burrowing animal
holes. Come over holes.
3. Activities Taking Place Today: Ground water Soul boring.
3. Anticipated Hazards: <u>Slips Trips Fall</u>
4. Engineering Controls-Work Practices-PPE to Protect Against Hazards: <u>Eye + Haul</u>
5. Additional Safety Topic or Comments: <u>Cull phonen</u> , <u>Dowing</u> Wet pavements, road rage.

Equipment type Equipment ID	Geog	robe 1	782	207			Week Ending:
Visual Inspection	Mon	Тие	Wed	Thu	Fri	Sat	Renairs Needed/Report to Earoman Daily
Attachments	mon	140	Treu	Thu	T	Jac	Repairs Needed/Report to Foreman Daily
Batteries							
Belts-Hoses*					X		
Blade-Bucket-Drum							
Bucket-Ripper Teeth			<u> </u>				
Cab Glass†							
Cable hooks-latches					×		·
Coolant-radiator*							
Cutting edges							
Decals-Numbers					X		
Exhaust-Muffler					×		
Fire Extinguisher [‡]					×		
Fuel-Grease-Oil*					×		
Leaks							
Loose Bolts, etc.							
Mirrors [†]							
Paint					×		
Seat-arm rests							
Tinware–Guarding							
Tires-Tracks				-	×		
Undercarriage							
Underguards							
	-1196-52						
Operation Test	Mon	Tue	Wed	Thu	Fri	Sat	Repairs Needed/Report to Foreman Daily
Attachments							
Brakes-Steering*					×		
Bucket–Positioners							
Charging System							
Controls-Linkages					×		

# **Daily Equipment Safety Inspection Checklist**

Starting System							
Transmission					X		
	T						
Operation Test	Mon	Tue	Wed	Thu	Fri	Sat	Repairs Needed/Report to Foreman Daily
Backup Alarm							
Driver/Operator							
Initials							
Horn(s)							
Lights*					X		

×

*Acceptable operating parameters can be found in the operating manual of the equipment. Compare inspection results to operators manual to ensure proper operation of the equipment.

[†]Cab glass must be made of safety glass and have no cracks. Mirrors must be installed and in good repair.

[‡]Remove fire extinguishers once per week, shake them upside down until the contents can be felt moving, and then reinstall.



Gauges*

Radios

Revision No.: 0	) Page:	1 of 2	Issue Date:	7/14/2006
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Service Log

and a second second second second second second second second second second second second second second second	Hours	Last Svc. Hours	Miles/other	Date/Svc. Perform
Mon				4
Tues				
Wed				-
Thu	-			
Fri				Suche 2020
Sat				IGAGIT
Comments:				
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Review Signature			Date	
Review Signature	•		Date	
Review Signature	in good	che	Date	115/14
Review Signature	in Jon	che	Date &	115/14
Review Signature	in goo	che	Date 8	115/14
Review Signature	in gos	che	Date	115/14
Review Signature	in por	che	Date	115/14
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Review Signature	in M	e de	Date 8	115/14
Review Signature	in Jon	che	Date 8	115/14

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### HEALTH AND SAFETY CHECKLIST (Fill out Daily)

Project Name/Number: Building 817, PN 746809 Site: Griffiss AFB Date: Personnel

**Observed and Locations:** 

Complete weekly for each site. Answer each question by checking the appropriate column (yes, no, or N/A). If a No is checked, provide an explanation on the Noncompliance and Corrective Actions form.

Do	ocumentation	Yes	<u>No</u>	<u>N/A</u>
1.	Is the APP/SSHP on-site?	t		
2.	Has the APP/SSHP been reviewed, dated, and signed within the last year?	₩,		
3.	Are the tasks being completed reflected in the hazard task analysis?	Y		
4.	Is there a written acknowledgement that all employees, including subcontractors have been briefed and read the APP/SSHP?	0		
5.	Are the following training records current and available in the field:			
	• 40-Hour HAZWOPER/8-hour refresher for ALL employees and subcontractors?			
	• 24 Hours Supervised Field Experience?			
	• 8-Hour HAZWOPER Annual Refresher?			
	• CPR/First Aid?			
	• 8-Hour Hazardous Waste Site Supervisor, and refresher?			
	• Initial Site Health and Safety Briefing?			
	• Site Health and Safety Briefing for each location or site?			
6.	Are emergency maps posted at the Site and maintained in vehicles?	2		
7.	Was the route to the hospital driven prior to beginning field work?	V		
8.	Was the hospital ER/EMS informed of the work, dates and times of field operations, and provided a map to the site?			
		Yes	No	<u>N/A</u>

1

C:\Users\p0094986\Desktop\OBGW 2013 Injections Procurement\OBGW LF 6 QCFP LF 6 QCFP 2013\Attachment 5\2HEALTH AND SAFETY CHECKLIST.doc PARSONS

### HEALTH AND SAFETY CHECKLIST

9. Were daily safety checklists completed and fire extinguishers checked?								
10. Were applicable MSDSs at the Site?	6							
11. Are documents current and available that indicate employees and subcontractors are medically fit to work and wear the required personal protective equipment?			$\sim$					
Observations	₽/							
12. Is required personal protective equipment available and correctly used, maintained, and stored?								
13. Is the following emergency equipment located at each site:	V							
• Fire extinguisher?	Y,							
• Eyewash (15 minutes fresh water)?	d/							
• Communications (walkie-talkie or phone)?	V							
• First aid kit?								
14. Is the buddy system in use?	Þ,							
15. Is the site organized to allow the use of lifting equipment, and avoid tripping hazards and spreading contamination?	t.							
16. Was a random employee asked if he/she know site hazard and emergency procedures?	4							
The Parsons Representative shall sign this checklist upon completion of all items on the checklist.								

Parsons Representative Signature:	71	N	í	- D -	
Printed Name and Title:	U	John	Longe	Ploy	My
Date:8 15 N				U	
1					

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#### **MOBILIZATION/DEMOBILIZATION CHECKLIST**

#### Project Name/Number: Griffiss AFB Building 817, PN 746809

Site: Building 817

Mobilization complete one time at the beginning of the project. Demobilization complete one time at the end of the project. Answer each question by checking the appropriate column (yes, no, or N/A). If a No is checked, provide explanation on the Noncompliance and Corrective Actions form.

	Site Access and Security	Yes	<u>No</u>	<u>N/A</u>
1.	Has a copy of the Right of Entry Permit(s) been received?			
2.	Are the time frames on the Right of Entry Permits adequate for the entire job including IDW disposal?			
	Permits and Licenses			
3.	Are all subcontractors licensed to operate in the state?			
4.	Are license numbers of subcontractors recorded in the project files?			
5.	Have subcontractors provided proof of insurance?			
6.	Have variances been obtained from the state?			
If ye	es, provide a list of variances obtained:			
		. 1	- 111	
	<b>Coordination with Property Owners and Tenants</b>			
7.	Has the property owner been contacted?			
8.	Did the property owner designate a contractor staging area?			
9.	Did the property owner approve a source for water?			

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## **MOBILIZATION/DEMOBILIZATION CHECKLIST**

#### **Coordination with Environmental Authorities**

10.	Has the State approved the RAWP Addendum?		
11.	Has USEPA approved the RAWP Addendum?		
	Safety Planning and Equipment		
12.	Have all personnel read and signed the APP/SSHP?		
13.	Was the local hospital contacted to verify the phone number and address?		
14.	Are all training certificates current?		
15.	Are all MSDSs in a file on-site?		
16.	Are all required instruments reserved and complete with calibration standards and manuals?		
17.	Do the instruments meet manufacturer maintenance and calibration standards?		
	Logistical Planning Complete within 1 week of notice to proceed.		
18.	Has the APP/SSHP been approved by Health and Safety Services?		
19.	Has notice to proceed from the USACE been received?		
20.	Are the project personnel available and scheduled?		
21.	Has USACE been notified of schedule?		
	Environmental Site Protection		
22.	Is work area limited to prevent property damage?		
23.	Is IDW area greater than 100 feet away from a major stream, tributary, or drinking water well?		
24.	If field activities damage property, will measures be taken to restore the Site (explain below)?		

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### **MOBILIZATION/DEMOBILIZATION CHECKLIST**

#### **Demobilization**

	1	
25. Was the site returned, as much as possible, to its original condition?		
26. Was each work area policed for trash?	V	
27. Did the site point of contact inspect the site?		
28. Was the integrity of each drum of IDW inspected?		

The Parsons Representative shall sign this checklist upon completion of all items on the checklist.

Parsons Representative Signature:	-0	
Printed Name and Title: Dublowies	1.00.	ther.
Date:	J	0

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#### PARSONS

## Construction Safety and Health Inspection Checklist (Fill out weekly)

hugt.

Project: Name: <u>4N1</u>

8-15-14 Date: 10:30 Ar Time:

Any items that have been found deficient must be corrected before work or use. This checklist includes, but is not limited to, the following:

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C

Safe Access and Workspace       V         Are safe access and adequate space for movement available for:       V         Emergencies       V         Work area       V         Walkways and passageways       V         Are ladders, stairways, and elevators properly located and functioning?       V         Is protection provided for floor and roof openings?       V         Is overhead protection provided for all areas of exposure?       V         Is lighting adequate?       V         Planning Work for Safety       V         Are employees provided with all required protective equipment?       V         Have other contractors and trades been coordinated with to prevent congestion and avoid hazards?       Is all temporary flooring, safety nets, and scaffolding provided where required?         Utilities and Services Identification       High-voltage lines       V         Have all been identified by signs?       Have all been identified by signs?       V         Are toilet facilities adequate?       V       V         Work Procedures – Materials Handling       Is material handling space adequate?       V         Is material handling equipment adequate and proper?       Is material handling equipment in good condition?       Other (e.g., tunnels, excavations, shafts)	Yes N	No
Are safe access and adequate space for movement available for:         Emergencies         Work area         Walkways and passageways         Are ladders, stairways, and elevators properly located and functioning?         Is protection provided for floor and roof openings?         Is overhead protection provided for all areas of exposure?         Is lighting adequate?         Planning Work for Safety         Are employees provided with all required protective equipment?         Have other contractors and trades been coordinated with to prevent congestion and avoid hazards?         Is all temporary flooring, safety nets, and scaffolding provided where required?         Utilities and Services Identification         Have all been identified by signs?         Have all been indentified by signs?         Have toilet facilities         Drinking water         Are toilet facilities adequate?         Work Procedures – Materials Handling         Is material handling space adequate?         Is material handling equipment adequate and proper?         Is material handling equipment in good condition?         Other (e.g., tunnels, excavations, shafts)	V	
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Other (e.g., tunnels, excavations, shafts)		
		1
		-

#### Comments:

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## **APPENDIX D**

### **BUILDING 817/WSA PREDESIGN INVESTIGATION MAP**

F:\Griffiss\Parsons Figures 6-2-06\Revised 6-7-06\Presentation\Oversized figs 12-27-06\PD_Fig_3-3.dwg





60 0 60 120 SCALE: 1"=60'

DRAWING TITLE:

BUILDING 817/WSA PREDESIGN INVESTIGATION MAP

FIGURE 3-3