

Remedial Investigation/Interim Remedial Measures/Alternatives Analysis Report

500 Seneca Street Site
Buffalo, New York

April 2015

0270-012-001

Prepared For:

500 Seneca Street, LLC



Prepared By:



BROWNFIELD CLEANUP PROGRAM

**REMEDIAL INVESTIGATION/INTERIM
REMEDIAL MEASURES/ALTERNATIVES
ANALYSIS REPORT**

**500 SENECA STREET SITE
BCP SITE NO. C915273
BUFFALO, NEW YORK**

April 2015

0270-012-001

Prepared for:

500 Seneca Street, LLC

Prepared By:



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REMEDIAL INVESTIGATION/INTERIM REMEDIAL MEASURES/ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE
BCP SITE No. C915273

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Certification

I, Thomas H. Forbes, certify that I am currently a NYS registered professional engineer and that this April 2015 Remedial Investigation/Interim Remedial Measures/Alternatives Analysis (RI/IRM/AA) Report for the 500 Seneca Street Site (C915273) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plans and any DER-approved modifications.

12-07-15
Date



1.0 INTRODUCTION

This Remedial Investigation/Interim Remedial Measures/Alternatives Analysis (RI/IRM/AA) Report has been prepared on behalf of 500 Seneca Street, LLC (500 Seneca) by Benchmark Environmental Engineering & Science, PLLC (Benchmark) for the 500 Seneca Street Site located in the City of Buffalo, New York (Site; see Figures 1 and 2).

500 Seneca elected to pursue cleanup and redevelopment of the Site under the New York State Brownfield Cleanup Program (BCP) and executed a Brownfield Cleanup Agreement (BCA, Index # C915273-04-13, Site No. C915273) with the New York State Department of Environmental Conservation (NYSDEC) dated June 7, 2013.

The RI and IRM activities completed were approved by the NYSDEC, with concurrence from the New York State Department of Health (NYSDOH), in accordance with: the RI Work Plan, approved on July 23, 2013; the Petroleum IRM Work Plan acknowledged in November 2014; and the Loading Dock IRM Work Plan, approved December 22nd, 2014.

Interpretations presented within this report are based on historic investigations completed by others prior to the Site entering into the BCP and subsequent to RI and IRM activities. The analytical data generated as part of the other investigations are included within this report and compared to the current applicable cleanup guidance.

1.1 Background

The Site consists of a single parcel (SBL# 111.81-7-1) totaling approximately 1.87-acres, located at 500 Seneca Street in the City of Buffalo, Erie County, New York. The Site is currently improved with a single six-story building occupying the majority of the property. A gravel/stone covered area to the west of the building covers the remainder of the Site. The Site encompasses an entire block, being bound by Myrtle Avenue to the north, Seneca Street to the south, Hamburg Street to the east, and Spring Street to the west.

The Site originally housed the F.N. Burt Box Company, which utilized the property for box manufacturing from the point of original building construction in the early 1900s until 1959. Between approximately 1968 and 1980, Wolkind Bros, Inc., a clothing rental business, utilized the Site. New Era Cap Co. purchased and utilized the Site for manufacturing, warehousing and shipping operations from 1986 to 2004. The Site has been

largely vacant and underutilized since New Era Cap Co. manufacturing operations ceased in 2004.

Historic environmental investigations completed at the Site have identified evidence of environmental contamination related to the former uses of the Site, including elevated levels of volatile organic compounds (VOCs) (petroleum- and chlorinated-related) have been detected on-Site at concentrations exceeding regulatory guidelines. Summaries of the previous investigations are presented in Section 1.2.

The planned redevelopment of the Site is an adaptive re-use of the former factory and office building into a mixed use commercial office/retail and residential (upper floor) redevelopment.

1.2 Historic Investigations

A summary of the investigations that have been completed at the Site are presented below. Appendix A includes the laboratory data from these investigations and Figure 3 shows the approximate locations of the referenced samples.

1.2.1 October 2007 – Phase I Environmental Site Assessment

GZA GeoEnvironmental, (GZA) conducted a Phase I Environmental Site Assessment (ESA) (Ref. 2) of the 500 Seneca Street parcel. The findings of the report are summarized below.

- Site reconnaissance indicated 500 Seneca was “generally vacant” and machine parts were observed being stored on the first floor.
- The Site has been vacant since 2003. The Site was owned and operated by New Era Cap Company Since 1986. Prior to New Era Caps use of the facility for manufacturing and distribution it was historically occupied by Wolkind Bros. Inc., clothing rentals from approximately 1968 to 1980. Burt Company Box manufactures also occupied the Site approximately from at least the 1930 to 1955. Both New Era Cap and Burt Box Company utilized various chemical and petroleum products. New Era Cap was identified as a small quantity generator of hazardous wastes (RCRA EPA ID# NYD986906295), and on the NY Manifest for disposal of PCB containing transformers, confirming the historic use of hazardous materials at the Site.

- Historic records identified a 2,000-gallon tank installed on the northwestern corner of the 500 Seneca parcel. The tank was reportedly installed in 1967. These records also referenced an existing (at that time) 550-gallon tank installed in 1957, for a total capacity of 2,500-gallons. Vent pipes were noted during Site reconnaissance in the vicinity of what appears to be a former pump island in this same area of the property.
- Several aboveground water storage tanks were noted on the 1st floor and an underground water storage tank (believed to be a cistern) was noted. Size and dimensions of the underground water storage tank were not known.

1.2.2 December 2007 – Phase II Environmental Site Assessment

GZA GeoEnvironmental, (GZA) conducted a Phase II Environmental Site Assessment (Ref. 3) on the 500 Seneca Street parcel. The relevant findings of the report are summarized below.

- GZA performed an electromagnetic (EM) geophysical survey using an EM61 time domain electromagnetic unit across the open lot area of the Site. GZA located two anomalies corresponding to the suspect locations of the underground storage tanks described above.
- Temporary monitoring wells installed in the vicinity of the suspected USTs identified low levels of petroleum type compounds in the groundwater, including: benzene, ethylbenzene, isopropylbenzene, n-propylbenzene, sec-butylbenzene, n-butylbenzene, and xylenes.
- Chlorinated solvents were detected in one location (SP-9) in the at grade loading dock on the northern portion of the Site. The source and extent of contamination were unknown. The detected concentrations in both soil and groundwater exceed NYSDEC groundwater standards and industrial soil cleanup objectives including: tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE), and vinyl chloride (VC).

1.2.3 January 2008 – USTs Removal and Excavation Report

Hazard Evaluations, Inc. (Hazard Evaluations) produced a Summary Report; USTs Removal and Excavation Report, to address the USTs at the 500 Seneca Street parcel. The findings of the report are summarized below.

- Upon locating the tanks, 1,650-gallons of non-hazardous petroleum/water mixture were removed from the vessels and transported off-Site to an appropriate disposal facility.
- Petroleum impacted soil was observed in the vicinity of the former 550-gallon UST and NYSDEC Spill# 0751217 was subsequently opened.
- 44.58 tons of petroleum impacted soil was removed from the vicinity of the former 550-gallon UST and disposed of at Tonawanda Landfill; excavation of impacted soils from this area was impeded by the presence of the on-Site garage building and the adjacent street (Myrtle Avenue).
- Post-excavation verification samples indicated elevated target VOCs at levels above the applicable NYSDEC Recommended Soil Cleanup Objectives (RSCOs) (per spill cleanup guidance in place at that time) along the east wall (garage building) and floor of the excavation.
- Spill# 0751217 is listed as “Record Closed” per NYSDEC Spills Database. It should be noted that the spill was made inactive with no further action required; however, residual contamination that could not be removed due to proximity of existing garage building remained on-Site.

1.2.4 April 2008 – Focused Phase II Environmental Site Assessment

GZA GeoEnvironmental, (GZA) conducted a Focused Phase II Environmental Site Assessment on the 500 Seneca Street parcel. The findings of the report are summarized below.

- Chlorinated solvents were detected in the soil samples collected during the interior investigation of the loading dock area. Dichloroethene (DCE), TCE, and PCE were determined to be the contaminants of concern in eight of the nine locations sampled.

- During field investigations the presence of PCE appeared to be localized to the western most loading dock bay area. One drain was noted in the area, which is assumed to be a clean out for a sewer line. An interview with a knowledgeable person at New Era disclosed that they did not know the purpose or discharge location of that drain.
- Chlorinated solvents were identified in the groundwater at three locations at concentrations above Class GA groundwater standards. One location had a PCE concentration four orders of magnitude higher than the NYSDEC Class GA standard.
- Limited subslab vapor testing indicated concentrations of regulated VOCs within acceptable ranges per New York State Department of Health Guidance for Evaluating Soil Vapor Intrusion.
- Based on the findings of the report GZA concluded that “chlorinated solvents, specifically PCE, are present in the western loading dock area at concentrations that require remedial action. The source of the contamination was not clearly identified. However, the presence of the chlorinated solvents appeared to be localized to the western most loading dock area. The area of soil impact generally appears to be at depths from 6 to 10 feet below ground surface, within a lateral area estimated at 20 feet (east to west) by 25 feet (north to south).”

1.2.5 October 2012 – Supplemental Site Reconnaissance

On October 30, 2012 Benchmark performed a supplemental site reconnaissance for the purpose of scoping the RI activities described herein. Benchmark was accompanied by a representative from the NYSDEC as well as a representative of 500 Seneca. Areas of potential concern identified included: a vehicle maintenance pit in the garage area of the building; a mechanical room; a former coal-fired boiler area; a suspect hydraulic lift in the courtyard area of the site; a former battery storage room; an electrical equipment (suspect transformer) room; and a reported sump in a flooded basement area of the building.

1.3 Purpose and Scope

This RI/IRM/AAR has been prepared to describe and present the findings of the environmental investigations, the completed IRM, and evaluate the remedial alternatives for the Site.

This report contains the following sections:

- Section 1.0 provides an introduction to the project and Site background information.
- Section 2.0 presents the RI approach.
- Section 3.0 describes the Site physical characteristics as they pertain to the investigation findings.
- Section 4.0 presents the investigation results by media.
- Section 5.0 summarizes the completed IRM activities.
- Section 6.0 describes the fate and transport of the constituents of primary concern (COPCs).
- Section 7.0 presents the qualitative risk assessment.
- Section 8.0 evaluates remedial alternatives for the Site.
- Section 9.0 presents the project summary and conclusions.
- Section 10.0 provides a list of references for this report.

2.0 INVESTIGATION APPROACH

The Remedial Investigation (RI) scope of work focused on further defining the nature and extent of contamination, identifying potential source(s) of contamination, defining chemical constituent migration pathways, qualitatively assessing human health and ecological risks (if necessary), and obtaining data of sufficient quantity and quality to perform the remedial alternatives evaluation in accordance with NYSDEC DER-10.

The RI was performed to supplement previous investigations and to more fully characterize surface and subsurface soil/fill materials, soil vapor, groundwater, and overburden stratigraphy within the Site boundaries. The RI tasks were performed in accordance with the approved RI/AA Work Plan. RI activities were completed at the Site between October 2013 and April 2015.

The investigation activities are described below. Figures 3-5 present the RI sample locations including historic sample locations. Appendix A contains a photo log of field activities. Field borehole logs and well completion details are included in Appendix B.

Field team personnel collected environmental samples (i.e., surface and sub-surface soil, soil vapor, water and groundwater) in accordance with the rationale and protocols described in the Sampling and Analysis Plan (SAP) of the Quality Assurance Project Plan (QAPP, Section 4.0 of the RI/AA Work Plan) as detailed on Table 1. Representative environmental samples were collected during the RI using dedicated sampling devices and were placed in pre-cleaned laboratory provided sample containers, cooled to 4°C in the field (if necessary), and transported under chain-of-custody command to a NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified analytical laboratory.

Samples for chemical analysis were analyzed in accordance with USEPA SW-846 methodologies to meet the definitive-level data requirements. A Category B deliverable package was provided for each sample delivery group to allow independent third-party data validation and provide defensible data. Analytical results were evaluated by a third-party data validation expert in accordance with provisions described in the QAPP.

2.1 RI Soil/Fill Investigation

A soil/fill investigation was completed across the site to supplement previous environmental data and to further delineate known contamination on-Site. The soil/fill

investigation included the advancement of soil borings across the Site, including accessible location beneath the existing building and hardscaped (i.e., asphalt, concrete and brick covered) areas of the Site, and the collection of surface and subsurface soil/fill samples.

2.1.1 Surface Soil/Fill Investigation

A surface soil/fill investigation was completed to assess surface soil/fill on the western portion of the Site, as the majority of the eastern and central portions of the Site are covered by the existing six-story building. An open air courtyard surrounded by the existing building is located in the eastern portion of the Site; however, the courtyard area is covered by concrete pavement. No surface samples were collected from this area.

Three (3) surface soil/fill samples, identified as SS-1, SS-2 and SS-3, were collected from the upper 6-inches of soil/fill (see Figure 4). Surface soil/fill samples were collected and analyzed in accordance with approved Sampling and Analysis Plan as detailed on Table 1.

2.1.2 Subsurface Soil/Fill Investigation

2.1.2.1 Soil Boring Investigation

A subsurface soil/fill investigation was completed to supplement the previous environmental data collected, further delineate extent of known VOC contamination, and to obtain general Site coverage.

Sixteen (16) soil borings were advance into the subsurface, designated as SB-1 through SB-16, as shown on Figure 4. The soil boring logs are provided in Appendix B. The rationale for the soil borings are as follows.

- SB-1 through SB-4 were completed to evaluate the potential for impacts associated with the garage area maintenance pit under the garage slab. A temporary 1-inch diameter PVC micro-well (IW-1) was installed at the location of SB-1.
- SB-5 was completed to evaluate potential residual impacts from the former 550-gallon UST beneath the garage slab.
- SB-6 through SB-9 were completed to assess the western exterior portion of Site south of the previously-remediated UST and pump island area. We note

that SB-7 was completed at the location of SS-1, SB-6 at the location of SS-2 and SB-9 at the location of SS-3.

- SB-10 through SB-13 were completed in the loading dock to supplement previous investigation data and assess the area for development of remedial measures that will be required to address previously identified impacts. A temporary 1-inch diameter PVC micro-well (TW-2) was installed at the location of SB-10 and temporary micro-well, TW-3, was installed at the location of SB-13.
- SB-14 through SB-16 were completed in the eastern courtyard area of the Site. Two (2) sample intervals were collected from the courtyard boring locations; from a shallow 0.5-2 ft. interval below the pavement, and another sample at a greater depth (see Table 1).

Soil borings were advanced using direct push methodology via hydraulic hammer on a track mounted rig. Soil samples were collected with a macro-core sampler which contained a 2-inch outer diameter by 48-inch long acetate liner. A new acetate liner was used for each 4-foot sample run. Borings were pushed through fill material and native overburden soils to the top of bedrock and/or refusal, which ranged from approximately 6 feet below ground surface (fbgs; SB-9) to 16.6 fbgs (SB-14), with an average refusal depth of 13 fbgs.

The soil/fill samples retrieved from the borings allowed for visual, olfactory, and photo ionization detector (PID) assessment of subsurface conditions. Soil/fill samples were collected from the borings for laboratory analysis (see Table 1). Elevated PID readings above background levels (less than 1 part per million (ppm)) were noted at nine (9) of the 16 locations, with a maximum PID reading of (147 ppm) at 5 fbgs at SB-5 (see Boring Logs in Appendix B).

2.1.2.2 Hand Cores Soil/Fill Investigation

A subsurface soil/fill investigation beneath the Site building slab using hand cores was completed to assess areas of potential concern on the ground floor and basement not readily accessible using conventional drilling equipment. These areas included the former mechanical room, a former battery storage area, a boiler room and an electrical equipment area.

Sub-slab hand core (HC) soil/fill samples were collected via a pre-cleaned stainless steel barrel auger through a core hole that was cut through the concrete floor using an electric powered core drill. The soil/fill samples from beneath the building were collected from the 2-foot interval of soil/fill beneath the concrete floor slab. The auger was decontaminated between sample locations.

Representative soil/fill samples were placed in pre-cleaned laboratory provided sample jars, cooled to 4°C in the field, and transported under chain-of-custody command to the laboratory for analysis.

2.1.3 Soil/Fill Sample Collection and Analyses

Soil/fill samples were collected using dedicated stainless steel sampling tools. Representative soil samples were placed in pre-cleaned laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to a NYSDOH ELAP certified analytical laboratory.

Representative subsurface soil/fill samples were analyzed in accordance with the approved work plan, for Target Compound List (TCL) plus Commissioner Policy (CP-51) VOCs and TCL semi-volatile organic compounds (SVOCs), Target Analyte List (TAL) metals, polychlorinated biphenyls (PCBs) pesticides and herbicides as detailed on Table 1.

All samples were collected and analyzed in accordance with United States Environmental Protection Agency (USEPA) SW-846 methodology with equivalent NYSDEC Category B deliverables to allow for independent third-party data usability assessment.

2.2 Groundwater Investigation

Benchmark personnel provided oversight for the installation of seven (7) 2-inch permanent groundwater monitoring wells, identified as MW-1 through MW-7, and three (3) temporary groundwater monitoring wells, identified as TW-1 through TW-3, to investigate on-Site groundwater quality and flow. Details of the well installation, well development, and groundwater sampling are provided below. Figures 4 and 5 present the location of the monitoring well network.

2.2.1.1 RI Monitoring Well Installation

After completion of the four (4) soil borings, 2-inch inside diameter (ID) groundwater monitoring wells were installed at the boring locations, identified as MW-1 through MW-4 in October 2013. Each well was constructed with a flush-joint Schedule 40 PVC, 0.010-inch machine slotted well screen. The screen lengths ranged from 5 to 7 feet. Each well screen and attached riser was placed at the bottom of each borehole and a silica sand filter pack (size #00N) was installed from the base of the well to approximately 2 feet above the top of the screen. A bentonite chip seal was installed and hydrated to mitigate the potential for downhole contamination. The monitoring wells were completed with lockable J-plug, and a steel flush mounted road box. The monitoring well construction details are presented in Appendix B.

2.2.1.2 Supplemental Monitoring Well Installation

After completion of the IRMs and review of the initial groundwater monitoring analytical results in consultation with the Department, three (3) additional 2-inch groundwater monitoring wells, identified as MW-5 through MW-7, were installed in April 2015. MW-5 was installed within the loading dock area to replace TW-2 that was removed in its entirety during the IRM excavation, MW-6 was installed to replace the decommissioned MW-1 and MW-2 in the western parking lot area, and an additional up-gradient off-site well, MW-7, was installed to further assess previously suspect groundwater constituents. The wells were installed in accordance with the approved work plan. Locations are included on Figures 4-5. Boring and well construction logs are provided in Appendix B.

2.2.1.3 Permanent Monitoring Well Development

The installed monitoring wells were developed after installation, in accordance with the approved work plan and Benchmark and NYSDEC protocols. Development of the monitoring wells was completed with dedicated disposable polyethylene bailers via surge and purge methodology. Field parameters including pH, temperature, turbidity, dissolved oxygen and specific conductance were measured every well volume during development until they became relatively stable. Stability was defined as variation between measurements of approximately 10 percent or less with no overall upward or downward trend in the measurements; or a minimum of three well volumes.

2.2.1.4 Permanent Monitoring Well Groundwater Sample Collection

Newly installed permanent monitoring wells were developed, as described above, prior to sampling to remove residual sediments and ensure hydraulic connection within the water-bearing zone. Benchmark personnel sampled monitoring wells using a peristaltic pump and dedicated tubing following low-flow/minimal drawdown purge and sample collection procedures. Field measurements for pH, specific conductance, temperature, turbidity, and water level as well as visual and olfactory field observations were periodically recorded and monitored for stabilization. Purging was considered complete when field measurements stabilized, and when turbidity measurements fell below 50 Nephelometric Turbidity Units (NTU) or became stable above 50 NTU. Upon stabilization of field parameters, groundwater samples were collected.

The collected groundwater samples were placed in pre-cleaned, pre-preserved (if required) laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to the laboratory for analysis. The groundwater sample analysis from permanent wells included TCL VOCs, TCL SVOCs, TAL Metals, PCBs, pesticides and herbicides as detailed on Table 1. In consultation with the Department, post-IRM supplemental groundwater samples were selectively analyzed for TCL VOCs, TCL SVOCs (base-neutral fraction), Part 375 List dissolved metals, and pesticides (see Table 1).

2.2.1.5 Temporary Micro-Well Installation (March 2014)

Subsequent to the completion of three (3) soil borings, three (3) temporary micro-wells were installed. As described above, temporary micro-well, TW-1 was installed at SB-1, TW-2 was installed at SB-10, and TW-3 was installed at SB-13.

The temporary micro-wells were constructed using 1-inch diameter flush-joint Schedule 40 PVC with a 5-foot flush-joint Schedule 40 PVC slotted well screen. With the exception of TM-3, temporary monitoring wells were removed in their entirety during IRM excavation activities.

2.2.1.6 Temporary Micro-Well Groundwater Sample Collection

The temporary micro-wells were purged and sampled by Benchmark personnel using dedicated and disposable micro-bailers. Field measurements for pH, specific conductance, temperature, turbidity, and water level as well as visual and olfactory field observations were periodically recorded and monitored. A minimum of three (3) well volumes were removed.

The collected groundwater samples were placed in pre-cleaned, pre-preserved (if required) laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to the laboratory for analysis. The groundwater sample analysis from temporary micro-wells included TCL VOCs, TCL SVOCs and TAL Metals as detailed on Table 1.

2.3 Soil Vapor Intrusion Investigation

A soil vapor intrusion (SVI) investigation was completed to further supplement previous SVI completed by others within the building. To supplement the evaluation, three (3) locations within the building were evaluated (see Figure 4). At each of these locations one (1) sub-slab vapor (SSV) and one (1) interior ambient air sample was collected, with a common outdoor ambient air sample collected to establish background conditions. One duplicate SSV sample was also collected.

2.3.1 Pre-Sample Assessment

Prior to initiation of the sampling, a pre-sampling inspection was performed to identify and minimize conditions that might interfere with or bias the testing (e.g., open containers of solvents, paints, etc.). No such concerns were observed during the RI.

2.3.2 Sub-slab Vapor & Ambient Air Sample Collection

Sub-slab vapor and ambient air sampling was completed in general conformance with the NYSDOH Soil Vapor Intrusion Guidance and Benchmark's Ambient Air/Subslab Vapor Sampling Field Operating Procedure, which was included with the approved RI Work Plan.

At each SSV sampling location, Benchmark personnel drilled a hole through a competent portion of the concrete slab, away from cracks and floor drains using a hand-held hammer drill. Sub-slab vapor samples were collected in the following manner:

- After installation of the probes, one to three volumes (i.e., the volume of the sample probe and tube) were purged prior to collecting the samples to ensure they were representative;
- The SSV probes were sealed at the surface with non-VOC containing clay;

- Flow rates for both purging and sample collection were regulated to less than 0.2 liters per minute; and
- SSV sample canisters were equipped with an 8-hour regulator to allow the sample to be collected over an approximate eight-hour period.

Concurrent with the SSV samples, indoor ambient air samples and an outdoor air sample were collected. Indoor ambient air samples were collected in the vicinity of each SSV sample. One (1) outdoor air sample was also collected from a ground level location upwind of the facility, determined on the day of the SSV field activities. Both the indoor and outdoor air sample canisters were also equipped with an 8-hour regulator to allow the sample to be collected over the same approximate 8-hour period.

Each canister, with an initial pressure of approximately 30 inches of mercury (in Hg) was fitted with an appropriate regulator for the 8-hour sampling period. The summa canister valves were kept closed until the SSV samples holes were complete and the ambient indoor air canisters were in their respective positions. Information regarding the sample duration and starting and ending vacuums was recorded on the sampling forms included in Appendix C.

After the sampling was completed, the regulator valves were closed and the soil vapor samples were transported to the laboratory for TCL VOCs analysis via USEPA Method TO-15 (see Table 1).

2.4 Basement Investigation

During the initial RI activities in October 2013 the basement area was flooded, limiting access. 500 Seneca pumped out the accumulated water in the basement to the municipal sewer, under Buffalo Sewer Authority Temporary Discharge Permit #14-05-TP218. A copy of the permit is included in Appendix G.

Visual inspection of the basement identified the previously reference sump and former air handling system and mechanical equipment with suspect electrical and hydraulic components. In consultation with the Department, a modified investigation approach was employed which included PCB wipe sampling of the electrical equipment and suspect floor

staining, sampling of floor soil-debris in the mechanical equipment room, and water sampling from the air handling blower sump.

Benchmark completed the basement investigation sampling on November 25th, 2014. Four (4) PCB wipe samples, identified as Wipe #1 (Motor #1–Housing), Wipe #2 (Motor #1–Floor), Wipe #3 (Motor #2–Housing) and Wipe #4 (Motor #2–Floor) were collected from the former air handling equipment electrical equipment and associated floor staining directly below each motor. Residual contents of the oil reservoir from Motor #1 were accessible and a water sample was collected by disposable bailer and analyzed for PCBs.

A composite floor soil-debris sample was collected from the mechanical equipment (hydraulic piston) room and analyzed for TCL SVOCs, RCRA Metals, and PCBs. A water sample was collected from the former air handling blower condensate sump and analyzed for TCL SVOCs and PCBs. All samples were placed in pre-cleaned, pre-preserved (if required) laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to laboratory for analysis. Approximate sample locations are shown on Figure 4. A photo log is provided in Appendix A.

2.5 Other Investigation Activities

In addition to the soil, groundwater and SVI assessments discussed above, additional evaluations were performed to assist in Site characterization, as follows.

- Cistern – A cistern was located in the southern-central portion of the building. The dimensions of the cistern are estimated at 80 feet long by 37 feet wide by 10 feet deep. The volume of water present is estimated to be 220,000-gallons. It is reported that the cistern is fed by the municipal water supply. A water sample from the cistern was collected in March 2014 with a dedicated and disposable bailer and analyzed for TCL VOCs, TCL SVOCs and TAL Metals.

2.6 Field Specific Quality Assurance/Quality Control Sampling

In addition to the soil/fill and groundwater samples described above, field-specific quality assurance/quality control (QA/QC) samples were collected and analyzed to ensure the reliability of the generated data as described in the QAPP and to support the required

third-party data usability assessment effort. Site-specific QA/QC samples included matrix spikes, matrix spike duplicates, blind duplicates, and trip blanks (see Table 1)

2.7 Site Mapping

A Site map was developed during the RI field investigation. The sample points and relevant Site features were located on the map. Benchmark used a handheld GPS unit to identify the investigation locations relative to State planar grid coordinates. Monitoring well riser elevations were measured by Benchmark's surveyor and used as the basis for the groundwater isopotential map showing the general direction of groundwater flow based on water level measurements (see Figure 5).

2.8 Decontamination & Investigation-Derived Waste Management

Dedicated sampling equipment was employed for the majority of the investigation activities, however, in instances where non-dedicated equipment (e.g., hand cores, spilt spoons) was used it was decontaminated with a non-phosphate detergent (i.e., Alconox®) and potable water mixture, rinsed with distilled water, and air-dried before each use in accordance with Benchmark's field operating procedures (FOPs).

RI generated drilling spoils and decontamination, and groundwater development water were containerized to allow for appropriate characterization, as necessary, based on the RI analytical findings. IDW soil/fill was removed and disposed off-site with the petroleum IRM excavation soils.

3.0 SITE PHYSICAL CHARACTERISTICS

The physical characteristics of the Site observed during the RI are described in the following sections.

3.1 General Site Features

The Site consists of a single parcel totaling approximate 1.87-acres, located at 500 Seneca Street in the City of Buffalo, Erie County, New York. The Site encompasses an entire block, being bound by Myrtle Avenue to the north, Seneca Street to the south, Hamburg Street to the east, and Spring Street to the west. The Site is largely comprised of large multi-story building with an attached single story garage/storage building and open lot on the western side of the parcel (see Figure 2).

3.2 Geology

3.2.1 Overburden

The U.S. Department of Agriculture Soil Conservation Service soil survey map of Erie County describes the general soil type at the Site as Urban Land (Ud). This is indicative of level to gently sloping land with at least 40 percent of the soil surface covered by asphalt, concrete, buildings, or other impervious structures typical of an urban environment.

RI activities investigated subsurface soils at the Site which generally consisted of non-native soil/fills overlying native soil. The non-native soil/fill materials were generally present in the upper 4 feet consisting of varying amounts of granular soils (silts, sands and gravels) with fill characteristics (cinders, brick fragments, slag) and lesser amounts of clay. The native soils generally consisted of variations of brown lean clays with varying amounts of sands, silts and gravels. Appendix B includes the Field Boring Logs.

3.2.2 Bedrock

Based on the bedrock geologic map of Erie County, the Site is situated over the Onondaga Formation of the Middle Devonian Series. The Onondaga Formation is comprised of a varying texture from coarse to very finely crystalline with a dark gray to tan color and chert and fossils within. The unit has an approximate thickness of 110 to 160 feet.

Structurally, the bedrock formations strike in an east-west direction and exhibit a regional dip that approximates 40 feet per mile (3 to 5 degrees) toward the south and southwest.

The historic subsurface investigations have advanced borings to a maximum depth of 19-fbgs and the RI average refusal depth was about 13 fbgs (with ranges from 6 to 16.6 fbgs), with refusals being assumed to be the top of bedrock.

3.3 Hydrogeology

Groundwater elevation data was collected in April 2015 as part of the supplemental groundwater monitoring completed on MW-3, MW-4, MW-5, MW-6, MW-7 and TW-3. Depth to groundwater ranged from approximately 5 to 9 fbgs across the Site, with the exception of , MW-3, installed in the open courtyard, generally has been dry or has only yielded a few inches of water throughout the RI. This well was installed to a depth of approximately 13 fbgs (refusal at suspected top of bedrock).

Based upon observations made during IRM activities, which generally indicated no groundwater infiltration into the cVOC excavation to a depth of 14 fbgs, and the lack of groundwater encountered in the petroleum IRM excavation to a depth of 8 fbgs it appears that there is no hydraulic connection between the overburden groundwater found in the soil/fill outside of the building footprint and the perched water encountered within the tight clay formations found underneath the building..

The Site hydrogeology is further complicated by the presence of municipal subgrade utilities along all sides of the property; an elevated section of Seneca Street and Hamburg Street influencing surface runoff and infiltration in the immediate vicinity, subgrade building structural footers and foundation (assumed to bedrock based on IRM observations), and the significant development cycles that have occurred in this section of the City, including dense historic residential development off-site across Myrtle Avenue (MW-4 and MW-7).

In general, groundwater flow direction is estimated to be west-northwest direction. Figure 5 depicts the estimated overburden groundwater isopotential map based on the water level measurements collected during the April 2015 groundwater sampling event.

3.3.1 Hydraulic Gradients

Using well installation and water level information from the April 2015 sampling event, the estimated hydraulic gradient was calculated to be an average of 0.00475 ft./ft. As discussed above, calculating the hydraulic gradient is complicated by the presence of the subslab cistern, building basement, multiple deep structural footers and foundation across the building footprint, presence of subgrade utilities, and significant historic development in this area of the City.

4.0 INVESTIGATION RESULTS BY MEDIA

The nature and extent of contamination at the Site was further characterized using soil, groundwater, and soil vapor samples collected and analyzed as part of the RI. As described in Section 2, soil, groundwater and soil vapor samples collected during previous investigations were used to supplement this RI..

The soil, groundwater, and SVI samples collected during the RI sampling events were submitted for analyses under chain-of-custody to a NYSDOH ELAP-certified laboratory. Analytical services were performed in accordance with the most current SW-846 analytical methods and protocols. Appendix E contains raw analytical data (Form 1 packages) for samples analyzed from the RI investigation. Tabulated analytical data discussed in this section includes results from prior investigations as well as the RI data collected by Benchmark personnel. Tabulated analytical results are shown only for those parameters for which a value greater than the laboratory method detection limit was detected at a minimum of one sample location.

Figure 3 shows the sampling locations for soil, groundwater and SVI samples collected during historic investigations and Figure 4 shows both the historic and RI investigations. Table 1 summarizes the sampling and analytical program employed under RI.

4.1 Standards, Criteria, and Guidance

According to DER-10 Section 1.3(b)71, SCGs mean “*standards and criteria that are generally applicable, consistently applied, and officially promulgated, that are either directly applicable or not directly applicable but are relevant and appropriate, unless good cause exists why conformity should be dispensed with, and with consideration being given to guidance determined, after the exercise of scientific and engineering judgment, to be applicable. This term incorporates both the CERCLA concept of ‘applicable or relevant and appropriate requirements’ (ARARs) and the USEPA’s ‘to be considered’ (TBCs) category of non-enforceable criteria or guidance. For purposes of this Guidance, ‘soil SCGs’ means the soil cleanup objectives and supplemental soil cleanup objectives identified in 6NYCRR 375-6.8 and the Commissioner Policy on Soil Cleanup Guidance (CP-Soil).*”

For discussion purposes, analytical results for the investigation were compared with the following SCG values.

Surface and Subsurface Soil/Fill:

Soil Cleanup Objectives (SCOs) per 6 New York Code Rules and Regulation (6 NYCRR) Part 375 Environmental Remediation Programs, Subparts 375-12 to 375-4 & 375-6, effective December 14, 2006.

Groundwater

Class GA Groundwater Quality Standards and Guidance Values (GWQS/GVs) per NYSDEC's Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1), June 1998, amended April 2000.

Soil Vapor Intrusion Samples

Matrices 1 and 2 per NYSDOH's "Final Guidance for Evaluating Soil Vapor Intrusion in the State New York" dated October 2006 (NYSDOH Guidance).

Sample results compared to the above criteria are described below according to media and contaminant class.

4.2 Historic Soil/Fill Results

As described above, previous investigations and environmental remediation activities have been completed at the Site, by others prior to 500 Seneca taking ownership of the Site. A total of 25 soil locations, including the collection of a total of 18 soil probes by GZA, identified as SP-1 through SP-18; and seven (7) post-excavation samples by HEI, collected after removal of the former USTs and pump. No surface samples were collected during the previous investigations.

A total of 22 soil samples were collected and analyzed for VOCs, five (5) samples were analyzed for SVOCs, and one (1) sample was analyzed for PCBs. Table 3A summarizes the historic subsurface soil/fill analytical results. Historic soil probe locations are identified on Figure 4.

Chlorinated VOCs (cVOCs) were detected above their USCOs, RRSCOs, and CSOCs, respectively in eight (8) soil probe locations associated with the loading dock. Petroleum VOCs were detected above USCOs and RRSCOs in soil probe and post-excavation sample results, particularly along the east wall of the former UST excavation where residual petroleum contaminated soil/fill was noted in the historic report. No SVOCs or PCBs were detected above USCOs in the previous investigations.

4.3 RI Soil/Fill Investigation Results

Benchmark completed the soil/fill investigation across the Site in accordance with the approved Work Plan. In total, three (3) surface and 28 subsurface surface soil/fill samples were collected and analyzed as part of the RI.

Tables 2 and 3B compare the soil/fill data to a range of health risk-based SCOs as published in 6NYCRR Part 375, including Unrestricted Use SCOs (USCOs), Restricted Residential Use SCOs (RRSCOS), and Commercial Use SCOs (CSCOS).

The RRSCOs are deemed protective of human health under a scenario whereby site use and associated exposure pathways are assumed to be similar to those under a single family home setting, excluding those that might occur from consumption of foods grown in a home vegetable garden. Based upon the reasonably anticipated future use of the Site in a mixed-use commercial and residential capacity, the RRSCOs are conservatively considered to be the most applicable health risk-based comparative criteria. Nevertheless, the following sections discuss the surface and subsurface soil results relative to the range of health-based SCO criteria to provide a comprehensive summary of the data.

4.3.1 RI Surface Soil/Fill Results

Three (3) surface soil/fill samples (designated SS-1, SS-2 and SS-3) were collected for analysis from the western portion of the Site (see Figure 4).

Table 2 summarizes the analytical results of the surface/fill soil samples with comparison to Part 375 SCOs. No surface soil/fill samples were collected as part of the historic investigation activities.

4.3.1.1 SVOCs

The majority of SVOCs were reported as non-detect (below method detection level) or trace (estimated) concentrations by the analytical laboratory in SS-1 and SS-2. Select SVOCs, primarily polycyclic aromatic hydrocarbons (PAHs), were detected in SS-3 exceeding their respective RRSCOs and/or CSCOs.

4.3.1.2 Metals

No analytes were detected above their respective RRSCOs. Three (3) analytes (chromium, lead and zinc) were detected above their respective USCOs selectively in SS-2 and SS-3.

4.3.1.3 PCBs

No PCBs were detected above MDLs in the three (3) surface soil/fill samples analyzed.

4.3.1.4 Pesticides

No pesticide compounds were detected above their respective RRSCOs. Two (2) compounds, 4,4'-DDE and 4,4'-DDT, were detected above their respective USCOs at estimated concentrations in the three (3) surface sample locations.

4.3.1.5 Herbicides

No herbicides were detected above USCOs; with all laboratory analytical results reported as non-detect or estimated concentrations below MDLs.

4.3.2 RI Subsurface Soil/Fill Results

Twenty-eight (28) subsurface soil samples were collected from the 16 soil borings (designated SB-1 through SB-16) and six (6) hand cores (designated HC-1 through HC-6) as part of the RI. Table 3B presents a summary of the RI subsurface soil/fill sample results and Figure 3 details the sample locations.

4.3.2.1 VOCs

No VOCs were detected above RRSCOs in the RI subsurface soil/fill samples, with the majority of the detected compounds falling below USCOs. Chlorinated VOCs,

specifically, tetrachloroethene (PCE) and trichloroethene (TCE) were detected above USCOs in SB-10 and SB-11, located in the loading dock.

4.3.2.2 SVOCs

No SVOCs were detected above RRSCOs with the minor exception of select polycyclic aromatic hydrocarbons (PAHs) in SB-6(5-7) and SB-8(6-8). In all cases the total (i.e., combined) concentration of PAHs was less than 50 ppm. The vast majority of analytes were reported as non-detect or estimated values below MDL by the laboratory (see Table 3B).

4.3.2.3 Metals

Arsenic was detected above its CSCOs and lead above its RRSCO in one location, SB-4 (0.5-4). Mercury was detected above its RRSCO in one soil boring location, SB-3 and two (2) hand core locations, HC-5 and HC-6 beneath the building concrete floor slab. Select naturally occurring metals were also detected above their respective USCOs (see Table 3B).

4.3.2.4 PCBs

No PCBs were detected above USCOs, with all results being reported as non-detect (below the MDL) by the laboratory.

4.3.2.5 Pesticides

No pesticides were detected above RRSCOs. Two compounds (4,4'-DDE and 4,4'-DDT) were detected above their respective USCOs at four sample locations (see Table 3B).

4.3.2.6 Herbicides

No herbicides were detected above USCOs, with all results being reported as non-detect or estimated values by the laboratory.

4.4 Groundwater Investigation Results

Benchmark personnel provided oversight for the installation of RI groundwater monitoring wells to investigate on-Site groundwater quality and flow. Figure 4 presents the location of the monitoring well network and Tables 4A and 4B presents a comparison of the detected groundwater parameters to the Class GA Groundwater Quality Standards (GWQS) per NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1

Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1988). Groundwater samples were collected in accordance with the work plan and analyzed in accordance with Table 1.

4.4.1 Historic Groundwater Results

Four (4) groundwater samples were collected, as part of the historic investigations, from temporary micro-wells installed at locations: SP-1, SP-9, SP-11 and SP-12 (see Figures 3 and 4). SP-1 was located adjacent to the former 500 gallon UST, and SP-9, SP-10 and SP-11 are associated with the loading dock. A water sample was also collected from the basement sump. A summary of the historic analytical results is presented on Table 4A.

Elevated VOCs above GWQS were detected in each of the four temporary wells. No elevated VOCs were detected in the basement sump. Specifically, elevated petroleum-related VOCs above were detected in SP-1, and elevated chlorinated VOCs were detected in SP-9, SP-11, and SP-12 located in the loading dock. No elevated VOCs above GWQS were detected in the basement sump sample.

4.4.2 RI Groundwater Investigation Results

Groundwater samples were collected as part of the RI activities; including seven (7) permanent monitoring wells and three (3) from temporary micro-wells (see Figure 4). The permanent monitoring wells are designated MW-1 through MW-7 and the temporary micro-wells are designated TW-1 through TW-3. A water sample was also collected from an internal building cistern located in the south central portion of the building as part of the RI.

Table 4B summarizes the results of the water/groundwater samples collected as part of the RI. The groundwater and water sample results from the RI and previous investigations were compared to the NYS Class “GA” Groundwater Quality Standards and Guidance Values (GWQS/GVs) and discussed below.

4.4.3 VOCs

Prior to IRM activities the majority of the analytes were reported as non-detectable or trace (estimated) concentrations below the laboratory quantitation limit. Chlorinated VOCs,

specifically, cis-1,2-dichloroethene, (DCE), TCE, and PCE were detected above their respective GWQS in TW-2, located in the loading dock.

Post-IRM supplemental groundwater sampling analytical results indicate no chlorinated VOCs above GWQS. Acetone was reported above GWQS at one location (MW-5); however, acetone is a known laboratory contaminant and previous historic and RI groundwater analytical results did not indicate elevated acetone at any sample location above GWQS, further indicating likely laboratory contamination (see Table 4B).

4.4.4 SVOCs

The vast majority of analytes were reported as non-detectable or trace (estimated) concentrations below the laboratory quantitation limit. Select PAHs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and chrysene were detected above their GWQS in MW-3, TMW-1, TMW-2, and TMW-3 (see Table 4B). The PAHs detected are reasonably attributed to high turbidity in the groundwater samples from the temporary wells.

Post-IRM supplemental groundwater sampling analytical results indicate no SVOCs above GWQS with all laboratory results reported as non-detectable or trace (estimated) values (see Table 4B).

4.4.5 Inorganic Compounds

The majority of metals detected at concentrations above GWQS were primarily limited to naturally-occurring minerals, including iron, magnesium, manganese, and sodium. Lead slightly exceeded its GWQS of 25 ug/L in TMW-1 (26 ug/L). The detections are likely associated with suspended soil particles, as evidence by the results for dissolved metals at MW-4.

No elevated metals above GWQS were detected in the supplemental groundwater sampling analytical results.

4.4.6 Polychlorinated biphenyls (PCBs)

No PCBs were detected above GWQS, with all results reported as non-detectable concentrations below the laboratory quantitation limit.

4.4.7 Pesticides

During the RI, the majority of analytes were reported as non-detectable or at trace (estimated) concentrations below the laboratory quantitation limit. Several pesticides were detected above their respective GWQS (see Table 4B), including the off-site upgradient well MW-4. Furthermore, the soil analytical results did not report elevated detection of similar constituents to the groundwater results.

No pesticides were detected above GWQS during the post-IRM supplemental groundwater sampling; including both on-Site and off-Site monitoring wells (see Table 4B).

4.4.8 Herbicides

No herbicides were detected above GWQS, with all results reported as non-detectable concentrations below the laboratory quantitation limit.

4.4.9 Cistern Water Sample

A water sample from the building cistern was collected and analyzed as part of the RI. No VOCs or SVOCs were detected. Sodium was detected at a concentration that exceeds its respective GWQS/GVs. It is believed that the cistern is mechanically filled from a public-water supply and was used as part of the historic building fire suppression system.

4.5 Soil Vapor Investigation Results

4.5.1 Historic SVI Results

A total of six (6) air samples were collected and five (5) samples were analyzed during the previous investigations. The historic report indicates that the outdoor ambient location was not analyzed due to equipment failure. The samples were analyzed for VOCs via Method TO-15. Table 5A summarizes the historic investigation.

Utilizing NYSDOH Matrix 1 and Matrix 2 comparison guidelines, analytical results for the Matrix 1 compound vinyl chloride (VC) and all results for Matrix 2 compounds indicated “No Further Action (NFA)”. Matrix 1 compounds TCE and carbon tetrachloride results for the warehouse and office air sampling locations indicate “take reasonable and practical actions to identify source(s) and reduce exposures (I,R)” (see Table 5A). It should

be noted that the previous investigation identified various chemicals on the pre-sampling inventory, including oils, grease, primers, cleaning products, sealing solutions, enamels, paints, insecticides and disinfectants.

4.5.2 RI SVI Results

Seven (7) air samples were collected and analyzed during the RI. The samples were analyzed for VOCs via Method TO-15 (see Figure 4). Table 6A summarizes the RI air sampling analytical results. Analytical results were compared to the NYSDOH *Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes in NYS (dated November 2005)*, Indoor 90th percentile values. All indoor air results were below the 90th percentile values.

Of the Matrix 1 compounds, TCE was only detected in one sample location (SSV-1), and carbon tetrachloride was only detected in ambient air sampling locations, with the highest results being detected in the outdoor ambient sample location. All other Matrix 1 and Matrix 2 compounds were reported by the laboratory as non-detect.

Utilizing NYSDOH Matrix 1 and Matrix 2 comparison guidelines, all results for Matrix 1 and Matrix 2 compounds indicate NFA (see Table 6B).

4.6 Basement Investigation Results

Benchmark personnel inspected the 500 Seneca Street building basement, located in the north central portion of the building footprint, in November 2014 after the standing water that prevented initial RI activities was pumped out under Temporary Discharge Permit #14-05-TP218. Four potential areas of concern were identified as the boiler sump (a small, concrete sump likely used for blower housing condensate/moisture discharge), mechanical room (hydraulic piston) floor contents and two air handling motors designated Motor #1 and Motor #2. The following sections summarize the results for the various sampling performed on each potential area of concern.

4.4.1 PCB Wipe Samples

Four (4) PCB wipe samples were during the basement investigation. Wipe 1 was collected from the oil-reservoir housing of Motor#1, and Wipe 2 was collected from suspect

floor staining beneath Motor #1 (see Photolog and Figure 4). Wipe 3 was collected from the oil-reservoir housing of Motor #2, and Wipe 4 was collected for the floor beneath Motor #2. PCB wipe samples were collected utilizing laboratory supplied hexane-preserved wipes and 100 square centimeter sampling grids for each location. Wipe sample results are summarized on Table 7.

All analytical results were reported as non-detect by the laboratory, with the minor exception of Wipe #2 for Aroclor 1016, which was reported with an estimated value of 2.9 ug/Abs (per 100 sq. cm.). Wipe 2 results are less than the 40CFR Part 761.1(3) and 761.79(b)(3)(i) decontamination standards for non-porous surfaces with no-free flowing liquids of less than or equal to 10 ug/100 sq. cm.

4.6.1 Water Samples

Two (2) water samples were collected during the basement investigation. One (1) sample was collected from the accessible Motor #1 oil-reservoir for PCBs, and one (1) water sample was collected from the air handler blower condensate sump for PCBs and SVOCs. Analytical results are summarized on Table 8.

No PCBs were detected in the Motor #1 oil-reservoir contents.

One (1) SVOC, 2,6-dinitrotoluene, and one PCB, Aroclor 1242, were detected at low concentrations in the Blower Sump water sample. The detected constituent concentrations fall well below the applicable municipal sewer discharge permit limits (Buffalo Sewer Authority), which generally limits total toxic organic concentrations to 2.13 mg/L per USEPA pretreatment regulations.

4.6.2 Mechanical Room Floor Composite Sample Results

During the basement visual inspection with the Department, it was noted that several mechanical system tanks (condensate and/or expansion) and metal support structures that were previously submerged were exhibiting corrosion (rusting) of the metal components. No free liquid was noted. Additionally, a hydraulic piston driven piece of equipment was also present in the mechanical room.

Based on the visual inspection, one (1) composite sample was collected and analyzed for SVOCs, metals and PCBs. No PCBs were detected above the MDL by the laboratory and as such were reported as non-detect. Several select metals and SVOCs were detected

above the RRSCO and CSCOs, respectively. As stated above, “rust flakes” were visible within the floor sediment-debris and the likely source of metals contamination. Total SVOCs were less than 50 ppm, with all analytes related were reported by the laboratory as estimate (J-flagged) values (see Table 9).

500 Seneca plans to professionally clean (power wash and vacuum) the floor and lower four (4) feet of the walls (i.e., flooded depth). The blower sump will also be cleaned and vacuumed as part of these remaining housekeeping activities. All cleaning water and residuals will be properly disposed off-site.

4.7 Summary of Investigation Findings

The following is a summary of the historic investigations and RI findings.

Surface Soils:

No SVOCs, metals, PCBs, pesticides or herbicides were detected at concentrations above RRSCOs, with the exception of select PAHs in one location, SS-3 (see Table 2). Elevated PAHs above their respective RRSCOs and/or CSCOs were only identified in SS-3. This location was removed during IRM excavation activities (see Section 5 below).

Subsurface Soils:

Investigation results identified elevated chlorinated VOCs (loading dock) and petroleum VOCs (former UST area), select PAHs, and metals at concentrations above RRSCOS and CSCOs (see Tables 3A and 3B). No PCBs or herbicides were detected above the laboratory MDL and were all reported as non-detect.

It should be noted that after completion of the IRM activities, no remaining on-Site subsurface soil/fill exceeds RRSCOs, with minor exceptions beneath the building slab.

Groundwater:

As described above, no VOCs, SVOCs, metals, or pesticides were detected above GWQS during the post-IRM supplemental groundwater sampling event (April 2015),

with the minor exception of the common laboratory contaminant acetone at one location (see Table 4B).

Historic groundwater sample results indicated that no PCBs or herbicides were detected above the laboratory MDL (see Tables 4A and 4B). Elevated VOCs were previously detected above GWQS in the loading dock area and former UST area. Select PAHs were detected above GWQS, primarily in the temporary wells and can be likely attributed to the turbidity in the water. Dissolved metals detected above GWQS are primarily naturally occurring minerals. Several pesticides were initially detected above their respective GWQS, including the off-site upgradient well (MW-4), indicating a potential background condition associated with subsurface soil/fill material predominant in urban environments. Furthermore, the soil analytical results did not report elevated detection of similar constituents to the groundwater results.

Soil Vapor Intrusion:

The majority of air results indicate “No Further Action (NFA)”, with minor exception in the historic investigation which indicated “take reasonable and practical actions to identify source(s) and reduce exposures (I,R).”, (note that the pre-sampling inventory indicated the presence of potential indoorsources such as paints, cleaners) of potential indoor air contamination. No air results were detected at concentrations above the NYSDOH Indoor Air 90th percentile guidelines (see Tables 5A through 6B).

IRM activities removed potential volatile source material and installed the subgrade extraction piping for an ASD System in the loading dock area to address potential residual volatile constituents under the building slab, if necessary.

Water:

Non-groundwater liquid samples were collected during the investigations, including the basement sump, cistern and basement water samples. No water results were detected at concentrations above GWQS with the exception of naturally occurring minerals (e.g., sodium) and/or relevant municipal sewer discharge limits,

Wipe Samples:

The majority of wipe sample results were reported as non-detect or estimated concentrations below the laboratory MDL (see Table 9). Only one estimated results was reported by the laboratory at a concentration below the federal guidelines for non-porous surfaces.

4.8 Data Usability Summary

In accordance with the RI Work Plan, the laboratory analytical data was independently assessed and, as required, submitted for independent review. Ms. Judy Harry of Data Validation Services located in North Creek, New York performed the data usability summary assessment for the soil vapor, soil/fill and groundwater samples, which involved a review of the summary form information and sample raw data, and a limited review of associated QC raw data. Specifically, the following items were reviewed:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate Recoveries
- Field Duplicate Correlation
- Preparation/Calibration Blanks
- Control Spike/Laboratory Control Samples
- Instrumental IDLs
- Calibration/CRI/CRA Standards
- ICP Interference Check Standards
- ICP Serial Dilution Correlations
- Sample Results Verification

The Data Usability Summary Reports (DUSRs) were conducted using guidance from the USEPA Region 2 validation Standard Operating Procedures, the USEPA National Functional Guidelines for Data Review, as well as professional judgment. Appendix F includes the DUSRs for the September 2010 and May 2011 analytical data, which were prepared in accordance with Appendix 2B of NYSDEC's DER-10 guidance. Those items listed above that demonstrated deficiencies are discussed in detail in the DUSR narrative

sections. Analytical results were edited or qualified per the DUSR with changes reflected on the summary tables. In general, the sample analyses were primarily conducted in compliance with the required analytical protocols. The sample results were usable either as reported, usable with minor qualification or edited. No data were rejected.

4.9 Constituents of Concern (COCs)

Based on historical investigation and the RI findings to date, the Constituents of Concern (COCs) for a restricted residential development are presented by media below:

- Surface Soil/Fill: SVOCs
- Subsurface Soil/Fill: SVOCs, metals

5.0 INTERIM REMEDIAL MEASURES

500 Seneca prepared and submitted two (2) IRM Work Plans, including the Petroleum IRM Work Plan (October 2014) and the Loading Dock IRM Work Plan (December 2014) to describe the planned remedial activities. Details of the completed IRMs are presented below.

5.1 Petroleum IRM Activities

As described above, residual petroleum contamination remained on-Site after completion of the UST removal in 2008 under the NYSDEC Spills Program (Spill No. 0751217). In accordance with the Department's August 19, 2010 correspondence, additional excavation was required in the vicinity of the former UST area to address residual petroleum if future intrusive activities were completed in the former UST area.

After completion of the above grade demolition activities, Benchmark provided oversight of the remedial excavation activities, including removal of subgrade footers/foundations, excavation of impacted soil/fill, implementation of the approved community air monitoring plan (CAMP), and collection of post-excavation confirmatory soil samples. Petroleum IRM remedial activities were completed between November 17th and 25th, 2014. The petroleum excavation was completed to approximately eight (8) feet below grade surface (fbgs). Figure 6 details the lateral extent of the petroleum IRM excavation and Table 10 summarizes the post-excavation confirmatory soil/fill sample results. Laboratory analytical data packages are provided electronically in Appendix X.

It should be noted that the petroleum excavation was extended to the east to address elevated arsenic in SB-4. Post-excavation samples from the floor and wall proximate to SB-4 (Bottom-02 and Sidewall-East) were additionally analyzed for metals (see Table 10). All petroleum IRM post-excavation results were below USCOs.

After completion of the petroleum excavation, 500 Seneca, in consultation with the Department, elected to address polycyclic aromatic hydrocarbon (PAH) impacts identified in the SS-3 area. The SS-3 excavation was completed to approximately 2 fbgs. Post-excavation confirmatory samples were collected for PAHs. Post-excavation results indicated a reduction in PAH concentration. Although select individual PAHS remained slightly above their respective RRSCOs, total PAHs fall below 25 ppm;. During redevelopment, additional

soil/fill in the vicinity of SS-3 was excavated during installation of subgrade utilities and asphalt and disposed off-site at the Waste Management (WM) Chaffee Landfill. The western lot of the Site is being redeveloped as a parking lot in accordance with DER-10 cover system requirements.

Specific elements of the petroleum IRM, as implemented, included:

- Excavation of approximately 385 tons of non-hazardous petroleum, metal and PAH impacted soil/fill followed by off-site transportation by R. E. Lorenz (9A-799) for disposal at the WM Chaffee Landfill, located in Chaffee, New York.
- Collection of a total of 11 post-excavation confirmatory soil samples including: six (6) from the petroleum and SB-4 area, and five (5) from the SS-3 area. Analytical results indicate that post-excavation samples are below RRSCOs, with minor exception of select PAHs in the SS-3 area, with Total PAHs below 25 ppm in all cases.
- Demarcation fabric was placed at the completion of excavation activities to delineate remaining in place soil/fill material from approved backfill. Demarcation fabric was also placed in the utility excavations prior to utility installation and backfilling. Details of the cover system will be provided in the Final Engineering Report (FER).

Though not a component of the petroleum IRM, excess soil/fill generated during redevelopment activities, including excavations for subgrade utilities and site paving activities were removed from the Site, including:

- Approximately 1,316 tons of excess soil/fill material that was unsuitable for reuse was excavated during redevelopment activities by 500 Seneca's general contractor, Scott Lawn Yard, and transported off-site for disposal at WM Chaffee Landfill, located in Chaffee, New York under the same approved disposal profile for the remedial excavation soil/fill described above.
- NYSDEC approved virgin-source backfill material, including bedding sand, pea stone and 2-inch run-of-crush, was used during utility installation. Demarcation fabric was placed prior to utility installation and backfilling.

5.2 Loading Dock IRM Activities

As described above 500 Seneca submitted an IRM Work to address chlorinated VOC impacts identified in the loading dock. NYSDEC approved the IRM Work Plan for public comment on December 22, 2014, with noticed public comment period from January 12, 2015 through February 12, 2015. We understand that no comments were received.

Remedial excavation was completed between January 26th and 30, 2014. Although the original IRM approach proposed an excavation depth of approximately six (6) feet below surface (fbgs) due to potential structural issues, the remedial excavation was successful in removing source area to competent rock, which was encountered at a depth of approximately 14 fbgs. Excavation was completed with near vertical sidewalls and extended to the accessible limits to the south as defined by the elevated loading dock platform, to the west as limited by existing building foundation wall, and to the north as limited by the foundation wall along Myrtle Avenue. Confirmatory post-excavation sidewall samples were collected after excavation was deemed complete. As the excavation was completed to rock, no bottom sample was collected. All post-excavation sample results are below RRSCOs. Lateral extents and post-excavation sample locations are presented on Figure 7. Table 11 summarizes the post-excavation confirmatory soil/fill sample results. Laboratory analytical data packages are provided electronically in Appendix E.

After the excavation was deemed complete, Benchmark installed the subgrade components of a groundwater treatment pipe (to provide a means to introduce amendment(s) in the future, if required) and vapor extraction systems, and backfilled the area with NYSDEC approved virgin-source stone backfill. Installation and backfilling was completed on February 20, 2015.

Specific elements of the Loading Dock IRM, as implemented included:

- Removal and off-site recycling of two (2) loads, approximately 40 tons, of non-impacted concrete.
- Excavation of approximately 382 tons of non-hazardous soil/fill followed by off-site transportation by R. E. Lorenz (9A-799) for disposal at WM's Chaffee Landfill, located in Chaffee, New York.
- Collection of four (4) sidewall post-excavation confirmatory soil samples. All post-excavation analytical results are below RRSCOs.

- Installation of the subgrade vapor extraction pipe. Details of the ASD System will be provided in the FER.
- Installation of subgrade groundwater treatment pipe to provide a conduit for in-situ treatment of perched water in the loading dock, if needed. Details of the groundwater treatment system will be provided in the FER.
- Backfilling of the excavation with NYSDEC approved virgin-source stone.

The Final Engineering Report, to be submitted as a separate document, includes additional details and supporting documentation of the IRMs.

6.0 FATE AND TRANSPORT OF COCs

The soil, groundwater, water and soil vapor sample analytical results associated with historic investigation and the RI were incorporated with the physical characterization of the Site to evaluate the fate and transport of COCs in Site media. The mechanisms by which the COCs can migrate to other areas or media are briefly outlined below. In all instances, the potential pathways are evaluated in the context of post-IRM conditions.

6.1 Fugitive Dust Generation

Volatile and non-volatile chemicals present in soil/fill can be released to ambient air as a result of fugitive dust generation. Impacted soil/fill was excavated and disposed off-site as part of the IRM activities and the completed remedial action achieved RRSCOs for VOCs.

Based on the completed IRM activities, and the planned future use and redevelopment with the Site primarily covered by building, concrete and asphalt, the potential for fugitive dust generation would be limited to shallow excavations during redevelopment and/or utility repair activities.

The vast majority of the RI and IRM subsurface soil/fill samples were below USCOs, and accessible soil/fill beneath the cover system generally falls below RRSCOs, and as such is protective of human health and environment. Additionally, any future intrusive activities beneath the cover system would need to be completed in accordance with the Excavation Work Plan to be included in the Site Management Plan (SMP), thereby significantly reducing potential for dust migration; therefore, fugitive dust generation is considered a relevant but unlikely migration pathway.

6.2 Volatilization

Volatile chemicals present in soil/fill and groundwater may be released to ambient or indoor air through volatilization either from or through the soil/fill underlying building structures. Volatile chemicals typically have a low organic-carbon partition coefficient (K_{oc}), low molecular weight, and a high Henry's Law constant.

A soil vapor investigation was completed as part of the RI. Utilizing the NYSDOH Matrix 1 and Matrix 2 guidelines, all results indicated “No Further Action (NFA).”

The completed IRMs were successful in source area removal of both residual petroleum impacts and cVOC impacts (loading dock) and achieved a RRSCO cleanup. After completion of the IRMs, no VOCs were detected in on-Site soil/fill above RRSCOs, with the vast majority below USCOS.

Post-IRM groundwater monitoring indicates no VOCs above GWQS, with exception of the common laboratory contaminant acetone in one location.

Based on the RI results, the IRM activities which achieved RRSCOs for VOCs and post-IRM groundwater sampling which indicates no cVOCs above GWQS, volatilization to indoor and outdoor air is not considered a relevant pathway at the Site.

6.3 Surface Water Runoff

The potential for soil particle transport with surface water runoff is low, as the majority of the Site is covered by building, concrete, and/or asphalt. Precipitation waters are collected in on-Site catch basins, and transmitted to the municipal sewer (Buffalo Sewer Authority). The combined sanitary/storm sewer system provides a mechanism for controlled surface water transport that ultimately result in sediment captured in Buffalo Sewer Authority’s grit chambers followed by disposal at a permitted sanitary landfill. As such, surface water runoff is not considered a relevant migration pathway.

All future intrusive activities will be completed in accordance with the SMP.

6.4 Leaching

Leaching refers to chemicals present in soil/fill capable of migrating downward to groundwater as a result of infiltration of precipitation. The completed IRM excavation/removal and off-Site disposal of impacted soil/fill from the Site achieved RRSCOs in nearly all areas of the property. Furthermore, the majority of the Site is covered by impermeable surfaces (i.e., asphalt, concrete, and buildings) which limit infiltration of precipitation. As such, leaching is considered a relevant but unlikely on-site/off-site contaminant migration pathway.

6.5 Groundwater Transport

Overburden groundwater underlying the Site flows in a west-northwesterly direction and is strongly influenced by underground utilities and building foundations. As described in Section 4.2, groundwater data initially indicated an isolated impact to perched groundwater by cVOCs in the area of the at grade loading dock. The cVOCs present in groundwater did not appear to be migrating away from this area. The completed IRM activities effectively removed the potential source areas, with all remaining groundwater monitoring wells yielding analytical results below GWQS/GV's for cVOCs.

The Site and surrounding area are serviced by municipal (supplied) water and it does not appear that cVOC contamination is being transported off-site via groundwater migration. Therefore, it does not appear that groundwater transport is a relevant migration pathway.

6.6 Exposure Pathways

Based on the analysis of chemical fate and transport provided above, the pathways through which Site COCs could reach receptors at significant exposure point concentrations have been significantly minimized by the completed IRM activities. Specifically, the IRM activities have:

- Mitigated the potential for contaminated soil/fill particles to migrate from the Site in the form of fugitive dust and/or surface runoff. ()
- Addressed the potential indoor and outdoor air volatilization pathways by excavation and offsite disposal of the petroleum and cVOC-impacted soils and installation of an ASD system in the loading dock. Post IRM groundwater monitoring results indicate no cVOC exceedance of GWQS.
- Addressed leaching of soil COCs via excavation of outdoor and indoor (loading dock) locations where elevated concentrations of organic constituents were present... Final remedial measures, which are expected to employ a cover system and Site Management Plan as discussed below, will further minimize this exposure pathway

7.0 QUALITATIVE EXPOSURE ASSESSMENT

7.1 Potential Human Health Risks

Based on the achieved Restricted-Residential Use cleanup, the 500 Seneca Street Site is fully protective of human health. The planned mixed-use residential and commercial redevelopment is consistent with the surrounding property use and zoning. As such, under current conditions (i.e., redevelopment) human contact with the Site can be expected to occur primarily by two types of receptors: trespassers who may traverse the property during redevelopment, and construction workers. Trespassers may be comprised of adolescents or adults, whereas construction workers would be limited to adults. In both instances, exposure frequency is expected to be negligible with remaining on-Site samples all below Part 375 RRSCOs, with minor exception beneath the building slab.

For groundwater, post-IRM analytical results indicate no exceedance of VOCs above GWQS, . Elevated PAHs, metals and pesticides appear to be ubiquitous to the urban environment of the Site. Based on similar concentrations in off-site wells and the availability of municipal water source at the Site, the potential for routine direct human contact or ingestion (i.e., as might occur with use of on-Site groundwater water for potable or process purposes) is highly unlikely in only the rarest occurrence of deep excavation beyond 6 fbg for utility or structural work. Municipally supplied potable water is provided, and required to be used in the City of Buffalo.

The IRMs were completed to reduce/eliminate exposure to COPCs. As discussed in Sections 4 and 5, nearly all site soils achieve RRSCOs with only limited areas remaining beneath existing building or the proposed cover system. ..

7.2 Potential Ecological Risks

The Site is a former commercial manufacturing facility located within a highly developed area of the City of Buffalo. The Site former and current site is predominantly covered with asphalt, concrete and buildings, which provide little or no wildlife habitat or food value, and/or access to the detected subsurface contamination. No natural waterways are present on or adjacent to the Site. The future use is a mixed residential and commercial redevelopment. The exterior western portion of the Site has been improved with asphalt

pavement to be used for parking. As such, no unacceptable ecological risks are expected under the current and future use scenario.

8.0 ALTERNATIVES ANALYSIS EVALUATION

This section provides an analysis of the selected remedial approach(s) by using the Remedy Selection Evaluation Criteria identified in Section 4.2 of DER-10: Technical Guidance for Site Investigation and Remediation. In accordance with DER-10 Section 4.4(d)2, in addition to the baseline alternative, the following alternatives are developed and assessed for each BCP Site based on NYSDEC-defined cleanup tracks as follows:

Track 1, 6 New York Codes, Rules and Regulations (6NYCRR) Part 375-3.8(e)(1) requires site media to meet Part 375 SCOs that will allow the site to be used for any purpose without restrictions on the use of the site (i.e., unrestricted use). The soil cleanup must achieve the unrestricted use criteria at any depth above bedrock. Details and evaluation of the Track 1 alternative are described below.

Track 2, 6NYCRR Part 375-3.8(e)(2) requires site media to meet Part 375 restricted use SCOs that are consistent with the end use. For the Site, the Track 2 cleanup must achieve the Commercial Use SCOs to a depth of 15 fbg. For Track 2 remedies, restrictions can be placed on the use of the property in the form of institutional and engineering controls, and future use and development will be completed in accordance with the environmental easement and site management plan. Details and evaluation of the of the Track 2 cleanup are described below.

Track 4, 6NYCRR Part 375-3.8(e)(4) soil cleanups uses site-specific information to identify site-specific SCOs (or site-specific action levels; SSALs) that are protective of public health and the environment under a restricted use scenario. For Track 4 remedies, restrictions can be placed on the use of the property in the form of institutional and engineering controls if they can be realistically implemented and maintained in a reliable and enforceable manner. As set forth in 6 NYCRR Part 375-3.8(e)(4)(iii)(b)(1), the top one foot of all exposed surface soils, not otherwise covered by the components of the development of the site (e.g., buildings, pavement), shall not exceed the restricted use (Commercial Use) SCOs. Areas that exceed these SCOs must be covered by material meeting the requirements of the generic soil cleanup table contained in Part 375-6.7(d) for the applicable future site uses (i.e., commercial).

8.1 Remedial Action Objectives

The final remedial measures for the Site must satisfy Remedial Action Objectives (RAOs). Remedial Action Objectives are site-specific statements that convey the goals for minimizing or eliminating substantial risks to public health and the environment. Per DER-10, generic RAOs associated with the Site include:

1. Groundwater:
 - a. Public Health Protection
 - Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
 - Prevent contact with, or inhalation of volatiles, from contaminated groundwater.
 - b. Environmental Protection
 - Remove the source of groundwater
 - Prevent the discharge of contaminants to surface waters
 -
2. Soil:
 - a. Public Health Protection
 - Prevent ingestion/direct contact with contaminated soil.
 - Prevent inhalation of or exposure from contaminants volatilizing from soil.
 - b. Environmental Protection
 - Prevent leaching of contaminants that would result in groundwater contamination.
3. Soil Vapor:
 - a. Public Health Protection
 - Mitigate impacts to public health resulting from potential soil vapor intrusion into building(s) on the site.

In addition to achieving RAOs, NYSDEC's Brownfield Cleanup Program calls for remedy evaluation in accordance with DER-10 Technical Guidance for Site Investigation and Remediation. Specifically, the guidance states "When proposing an appropriate remedy, the person responsible for conducting the investigation and/or remediation should identify and develop a remedial action that is based on the following criteria...:"

- **Overall Protection of Public Health and the Environment.** This criterion is an evaluation of the remedy's ability to protect public health and the environment, assessing how risks posed through each existing or potential pathway of exposure are eliminated, reduced, or controlled through removal, treatment, engineering controls, or institutional controls.
- **Compliance with Standards, Criteria, and Guidance (SCGs).** Compliance with SCGs addresses whether a remedy will meet applicable environmental laws, regulations, standards, and guidance.
- **Long-Term Effectiveness and Permanence.** This criterion evaluates the long-term effectiveness of the remedy after implementation. If wastes or treated residuals remain on-site after the selected remedy has been implemented, the following items are evaluated: (i) the magnitude of the remaining risks (i.e., will there be any significant threats, exposure pathways, or risks to the community and environment from the remaining wastes or treated residuals), (ii) the adequacy of the engineering and institutional controls intended to limit the risk, (iii) the reliability of these controls, and (iv) the ability of the remedy to continue to meet RAOs in the future.
- **Reduction of Toxicity, Mobility or Volume with Treatment.** This criterion evaluates the remedy's ability to reduce the toxicity, mobility, or volume of Site contamination. Preference is given to remedies that permanently and significantly reduce the toxicity, mobility, or volume of the wastes at the Site.
- **Short-Term Effectiveness.** Short-term effectiveness is an evaluation of the potential short-term adverse impacts and risks of the remedy upon the community, the workers, and the environment during construction and/or implementation. This includes a discussion of how the identified adverse impacts and health risks to the community or workers at the Site will be controlled, and the effectiveness of the controls. This criterion also includes a discussion of engineering controls that will be used to mitigate short term impacts (i.e., dust control measures), and an estimate of the length of time needed to achieve the remedial objectives.

- **Implementation.** The implementation criterion evaluates the technical and administrative feasibility of implementing the remedy. Technical feasibility includes the difficulties associated with the construction and the ability to monitor the effectiveness of the remedy. For administrative feasibility, the availability of the necessary personnel and material is evaluated along with potential difficulties in obtaining specific operating approvals, access for construction, etc.
- **Cost.** Capital, operation, maintenance, and monitoring costs are estimated for the remedy and presented on a present worth basis.
- **Community Acceptance.** This criterion evaluates the public's comments, concerns, and overall perception of the remedy.
- **Land Use –** This criterion includes the Department's determination of reasonable certainty of the use; and the evaluation of the reasonably anticipated future use of the site.

8.2 Future Land Use Evaluation

In developing and screening remedial alternatives, NYSDEC's Part 375 regulations require that the reasonableness of the anticipated future land be factored into the evaluation. The regulations identify 16 criteria that must be considered. These criteria and the resultant outcome for the 500 Seneca Street Site are presented below.

1. *Current use and historical and/or recent development patterns:* The Site was developed with residential dwellings in the 1800s. Between 1901 and 1927, a series of adjoining building buildings were constructed to serve as the office and manufacturing facilities for F.N. Burt Company, which utilized the property for box manufacturing from the point of original building construction until 1959. Between approximately 1968 and 1980, Wolkind Bros, Inc., a clothing rental business, utilized the Site. New Era Cap Co. purchased and utilized the Site for manufacturing, warehousing and shipping operations from 1986 to 2004. The Site has been largely vacant and underutilized since New Era Cap Co. manufacturing operations ceased in 2004.

The planned redevelopment of the Site would include utilizing the existing structure for mixed use residential (upper floors) and commercial office space (main/ground surface level). **Accordingly, a mixed use residential and commercial site redevelopment would be consistent with current and anticipated redevelopment plans for the area around the Site.**

2. *Applicable zoning laws and maps:* The Site and the surrounding areas to the south are located in an area of the City of Buffalo zoned M1-Light Industrial District. However, to the west and north the zoning is R3- Dwelling District.

The proposed development use of mixed residential and commercial office space is consistent with current zoning and the City of Buffalo's Buffalo Green Code, as further discussed in Bullet 4.

3. *Brownfield opportunity areas as designated set forth in GML 970-r:* The Brownfield Opportunity Area (BOA) Program provides municipalities and community based organizations with assistance to complete revitalization plans and implementation strategies for areas or communities affected by the presence of brownfield sites, and site assessments for strategic sites. **The subject property does not lie within a BOA.**
4. *Applicable comprehensive community master plans, local waterfront revitalization plans as provided for in EL article 42, or any other applicable land use plan formally adopted by a municipality:* According to the Transitional Analysis completed as part of the Buffalo Green Code, Unified Development Ordinance dated May 2014, the Site within the boundaries of an area slated for transition to Urban Core (N-1D, N-1E and N-1S). Based on the location of the Site to downtown Buffalo, N-1E, Downtown Edge, is likely the most applicable. It is described as a "Full-Block, zero setbacks, zero side yard development with consistent pedestrian-orientated ground floor frontages and significant vertical mixed-use". **The proposed redevelopment of the Site for a mixed residential and commercial use is consistent with the Buffalo Green Code.**
5. *Proximity to real property currently used for residential use, and to urban, commercial, industrial, agricultural, and recreational areas:* The Site is located within the boundaries of the new Urban Core (N-1) designated in the Draft Unified Development Ordinance and Buffalo Green Code. Residential properties are located approximately 250-ft to the north and northwest of the Site across Myrtle Avenue and Spring Street. Commercial and industrial properties, including an active rail line, are located proximate to the Site across Seneca Street. **Nearby and adjacent properties are mixed use, including residential, commercial and industrial. The proposed redevelopment of the Site for a mixed residential and commercial use is consistent with the Buffalo Green Code.**

6. *Any written and oral comments submitted by members of the public on the proposed use as part of the activities performed pursuant to the citizen participation plan:* **No comments have been received from the public relevant to Site use concerns.**
7. *Environmental justice concerns, which include the extent to which the proposed use may reasonably be expected to cause or increase a disproportionate burden on the community in which the site is located, including low-income minority communities, or to result in a disproportionate concentration of commercial or industrial uses in what has historically been a mixed use or residential community:* **Nearby and adjacent properties are a mixed use of residential, commercial and industrial properties. The proposed redevelopment of the Site for a mixed residential and commercial use is consistent with the Buffalo Green Code This does not pose environmental justice issues.**
8. *Federal or State land use designations:* The property is designated Urban Land by the Soil Conservation Service. **Reuse in a restricted residential and commercial capacity is typical in urban areas where background conditions sometimes preclude achieving unrestricted use soil cleanup objectives.**
9. *Population growth patterns and projections:* The City of Buffalo, encompassing 40 square miles, has a population of 261,025 (2011 US Census Bureau), a decrease of 0.1% from 2010 U.S. Census. The population density in the City is 5,525.6 people per square mile. The Site is located in Census Tract 12, in the area of the city zoned for commercial/light industrial/residential.

The Site is located in a highly developed mixed use residential, commercial and industrial area of the City of Buffalo. Properties adjacent to the Site include commercial, residential, and industrial properties. **Reuse of the Site in a mixed residential and commercial capacity increases the opportunities for residential population growth.**
10. *Accessibility to existing infrastructure:* The Site is located in a mixed residential, commercial and industrial area with easy access to City of Buffalo streets and nearby Interstate 190. Utilities (sewer, water, gas, and electric) are present along these streets. **Existing infrastructure supports continued reuse in a mixed use capacity.**
11. Proximity of the site to important cultural resources, including federal or State historic or heritage sites or Native American religious sites: **The Kamman Building (NR#: 09NR06076) addressed at 755 Seneca Street is located approximately 0.4-miles to the east of the Site. No other federal or State historic or heritage sites or Native American religious sites area in the vicinity.**

12. *Natural resources, including proximity of the site to important federal, State or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species:* No State or Federal wetlands exist on the Site. The Buffalo River is located approximately 0.8-miles southwest of the Site and a NYSDEC regulated freshwater wetland (BU-3) is located approximately 1.25-miles to the west of the site. According to the NYSDEC's Environmental Resource Mapper (ERM) there are only two important plant habitats/endangered species listed for the area encompassing the Site:

- The Golden Dock (*Rumex fueginus*) is listed as an endangered rare plant species under NYS Protected Status.
- The American Burying Beetle (*Nicrophorus americanus*) is listed as an endangered rare animal species under NYS Protection Status.

The absence of significant ecological resources on or adjacent to the Site indicates that cleanup to restricted-residential use conditions will not pose an ecological threat.

13. *Potential vulnerability of groundwater to contamination that might emanate from the site, including proximity to wellhead protection and groundwater recharge areas and other areas identified by the Department and the State's comprehensive groundwater remediation and protection program established set forth in ECL Article 15 Title 31:* Groundwater at the Site is assigned Class "GA" by 6NYCRR Part 701.15. A total of seven overburden groundwater monitoring wells and seven piezometers were installed on the Site. Groundwater data obtained during the RI and post-IRM sampling events, indicate conformance with GWQS, with minor exceptions. There are no groundwater supply wells present on the Site. Regionally, groundwater in the area has not been developed for industrial, agriculture, or public supply purposes. Potable water service is provided to the Site and surrounding area by the local municipal water authority. **The absence of potable wells, wellhead protection, and groundwater recharge areas indicates that cleanup to restricted-residential use conditions will not pose a drinking water threat.**

14. *Proximity to flood plains:* No flood plains exist on the Site; therefore there is no risk of significant soil erosion due to flooding. **As such, cleanup to restricted-residential use standards does not pose a threat to surface water.**

15. *Geography and geology:* Shallow surface soils at the Site, although present beneath asphalt and/or the building, were generally characterized during the RI as non-native soil/fill materials in the upper 4 feet consisting of varying amounts of granular soils (silts, sands and gravels) with fill characteristics (cinders, brick fragments, slag) and lesser amounts of clay. The native soils generally consisted of variations of brown

lean clays with varying amounts of sands, silts and gravels. **Geography and geology are consistent with a mixed residential/commercial redevelopment.**

16. *Current institutional controls applicable to the site:* **No institutional controls are currently present that would affect redevelopment options.**

Based on the above analysis, reuse of the Site in a commercial-residential capacity is consistent with past and current development and zoning on and around the Site, and does not pose additional environmental or human health risk.

8.3 Remedial Alternatives Evaluation

In addition to the evaluation of alternatives to remediate to the likely end use of the Site, NYSDEC regulation and policy calls for evaluation of more restrictive end-use scenarios. These include an unrestricted use scenario (considered under 6NYCRR Part 375 to be representative of cleanup to pre-disposal conditions), and a scenario less restrictive than the reasonably anticipated future use, which is residential use. Per NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, evaluation of a “no action/ no further action” alternative is also required to provide a baseline for comparison against other alternatives.

The alternatives evaluated below in greater detail include:

- No Further Action/IRM
- Track 4 Restricted Residential Use Cleanup
- Track 2 Restricted Residential Use Cleanup
- Unrestricted Use Cleanup (Track 1)

8.3.1 Alternative #1- No Further Action/IRM

Under this alternative, the Site would remain in its current state, with no additional controls in-place beyond the IRMs completed (i.e., Petroleum IRM and Loading Dock IRM).

Overall Protection of Public Health and the Environment – This alternative does not reduce the risk or exposure for human health and the environment beyond the

completed IRMs. The Site as it exists is not fully protective of human health and the environment due to the presence of contamination (albeit at low levels) remaining on-Site, and the absence of institutional controls to mitigate exposure to remaining impacts and prevent more restrictive forms of future Site use (e.g., unrestricted or residential). Accordingly, no further action is not fully protective of public health and does not satisfy the RAOs.

Compliance with SCGs – Under the current and future use scenario (restricted residential), the remaining contamination on-Site detected in the soil/fill and groundwater do not comply with applicable SCGs in the absence of institution controls.

Long-Term Effectiveness and Permanence – Though the completed IRMs were successful in reducing on-site contamination permanently (off-site disposal in licensed disposal facility), without the application of institutional controls the no further action alternative provides no long-term effectiveness or permanence in achieving RAOs.

Reduction of Toxicity, Mobility, or Volume – The IRMs completed at the Site have reduced the toxicity, mobility and volume of COPCs. However, remaining contamination on-Site will need to be removed to comply with RAOs, and therefore, no further action is not protective of public health and does not satisfy the RAOs.

Short-Term Impact and Effectiveness – The completed IRMs were effective in initially reducing short-term adverse impacts to the community.

Implementability – No technical or administrative implementability issues are associated with the no further action alternative.

Cost – The capital cost of the IRMs completed was approximately \$225,000. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no further action alternative.

Community Acceptance – The Loading Dock IRM Work Plan was made available for public review from January 12, 2015 through February 12, 2015. No comments from the public were received. Continued community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

8.3.2 Alternative 2- Track 4 Restricted Residential Use Cleanup

Under this alternative, in addition to the completed IRMs, the Site would be cleaned up to achieve a Track 4 Restricted Residential Use. Figure 10 identifies the additional remedial measures necessary to achieve a Track 4 RRSCO cleanup. Table 12 provides a cost estimate to complete this alternative.

The additional remedial & housekeeping measures would include:

- **Basement Cleaning Measures**, including cleaning and off-site disposal of residual surface contamination in the basement. The remedial cleaning would include removal and off-site disposal/scrap recycling of former air handler and mechanical equipment, cleaning of the air handler sump, and cleaning of the basement concrete floor and walls to approximately 4 feet above floor elevation. All cleaning residual wastes (floor soil debris and cleaning waters) will be properly handled and disposed off-Site.
- **Universal and Chemical Waste Removal**, including the collection and off-site disposal of potential mercury lamps and bulbs, batteries, and potential pcb-containing light ballasts. Other miscellaneous chemical wastes and drums (e.g., associated with the former boiler room) will be removed and properly disposed/recycled off-site.
- **Placement of Cover System**, including demarcation layer underlying DER-10 acceptable backfill in areas without hardscape (building, asphalt and concrete) to address remaining contamination above RRSCOs.
- **Implementation of a Site Management Plan (SMP)**. The SMP will include:
 - **Institutional Controls and Engineering Controls (IC/EC)**
Engineering controls include any physical barrier or method employed to actively or passively contain, stabilize, or monitor contaminants; restrict the movement of contaminants; or eliminate potential exposure pathways to contaminants. Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted residential use.

- o **Operation and Maintenance Plan** that describes the measures necessary to operate, monitor, and maintain any mechanical components of the remedial work (not considered applicable in this case).
- o **Excavation Work Plan** to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner;
- o **Site Monitoring Plan** that includes: provisions for a Site-wide inspection program to assure that the IC/ECs have not been altered and remain effective; and,
- o **Environmental Easement** filed with Erie County.

Overall Protection of Public Health and the Environment – This alternative would be protective of public health and the environment, based on the completed IRMs, and planned remedial activities, as stated above, and the use of engineering and institutional controls to prevent potential future exposure. The SMP will include appropriate plans, controls and measures and an environmental easement to ensure the restricted-residential use remedy is protective of human health and the environment. Therefore, this alternative is protective of health and the environment and satisfies the RAOs.

Compliance with SCGs – The planned remedial activities will be performed in accordance with applicable, relevant, and appropriate standards, guidance, and criteria. The IRMs and planned remedial actions are fully protective of human health and the environment, and achieves RAOs for the Site. This alternative complies with applicable SCGs.

Long-Term Effectiveness and Permanence – The completed IRMs removed approximately 760 tons of petroleum and CVOC impacted soil/fill and disposed off-site at permitted landfill. The planned remedial activities, including basement, universal and chemical wastes, cover system, and implementation of EC/IC will provide long-term effectiveness and permanence.

The SMP will include appropriate plans, controls, and measures and an environmental easement to ensure the restricted use remedy is protective of human health

and the environment. The SMP will be followed by the current Site owner as well as future Site owners. As such, this alternative will provide long-term effectiveness and permanence.

Reduction of Toxicity, Mobility, or Volume – Reduction of toxicity (via removal of exposure pathways) and mobility (via disposal of impacted materials in a secured landfill) has been achieved by completion of the IRMs. The SMP will include appropriate plans, controls, and measures and an environmental easement to ensure the restricted use remedy remains protective of human health and the environment. Accordingly, this alternative satisfies this criterion.

- ***Short-Term Impact and Effectiveness*** – The short-term adverse impacts and risks to the community, workers, and environment during implementation of the IRM were effectively controlled in accordance with the site Health and Safety Plan and IRM Work Plans.

Implementability – No technical or administrative implementability issues are associated with this alternative.

Cost – The capital costs for this alternative, including the completed IRMs is estimated at approximately \$745,000. Annual certification is estimated at approximately \$2,500 per year.

Community Acceptance – The Loading Dock IRM Work Plan was made available for public review from January 12, 2015 through February 12, 2015. No comments from the public were received.

Continued community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

8.3.3 Alternative 3- Track 2 Restricted Residential Use Cleanup

Under this alternative, in addition to the completed IRMs, the Site would be remediated to achieve 6NYRR Part 375 Restricted Residential Use Cleanup (Track 2), which

in general would include: excavation and off-Site disposal of soil exceeding RRSCOs to a depth of 15-ft below post-redevelopment final grade (or bedrock, whichever is encountered first) across the entire site, and implementation of a Site Management Plan, and filing of an environmental easement. Figure 11 identifies the additional remedial measures necessary to achieve a Track 2 RRSCOs cleanup.

The alternative includes the following components:

- **Excavation Activities** to address soil/fill exceeding their respective RRSCOs in the upper 15 feet of soil/fill or above bedrock.
- **Implementation of a Site Management Plan (SMP).** The SMP will include the same elements as described under Alternative 2.

Overall Protection of Public Health and the Environment –

Under this alternative, additional remedial excavation beyond the completed IRMs would be necessary to achieve RRSCOs across the Site. Since the IRM and additional remedial action would achieve removal of impacted soil/fill to below RRSCOs, and implement institutional controls, this alternative is fully protective of human health and the environment, and would successfully achieves the RAOs for the Site.

Compliance with SCGs – The planned remedial activities will be performed in accordance with applicable, relevant, and appropriate SCGs. The IRMs and planned remedial actions are fully protective of human health and the environment, and achieve RAOs for the Site. The SMP would include: an Operation and Maintenance (O&M) plan to confirm that the ASD system is operating and being maintained in accordance with the SMP; and, a Site-wide Inspection program to assure that the engineering and institutional controls placed on the Site have not been altered and remain effective.

Long-Term Effectiveness and Permanence – The completed IRM and additional remedial action would effectively remove soil/fill exceeding RRSCOs to a depth of 15 fbs, or bedrock across the site, and thereby provide long-term effectiveness and permanence. A Site Management Plan would be prepared to assure that the Institutional Controls placed on

the Site have not been altered and remain effective. As such, this alternative will provide long-term effectiveness and permanence.

Reduction of Toxicity, Mobility, or Volume – Reduction of toxicity, mobility or volume would be achieved by the completed IRMs and the planned additional excavation and off-site disposal of soil/fill exceeding RRSCOs across the Site. The SMP will include appropriate plans, controls, and measures and an environmental easement to ensure the restricted use remedy is protective of human health and the environment. Accordingly, this alternative satisfies this criterion.

Short-Term Impact and Effectiveness – There are several potential short-term impacts associated with this alternative.

- There is potential for impacts to human health (workers and construction personnel) due to direct contact with impacted soil and particulate releases. This alternative would require implementation of a health and safety plan (HASP) to identify proper personal protective equipment required as well as the proper site and community air monitoring, as outlined in the NYSDOH Generic Community Air Monitoring Plan (CAMP), in order to mitigate potential adverse conditions/short-term impacts. Additional health and safety measures would need to be employed during excavation activities within the building and under the building slab. Moreover, significant physical hazards may be encountered due to structural limitations associated with removal of subslab soil/fill as described below.
- Human health and the environment associated with chemical exposures would be protected under this alternative if the HASP and CAMP are properly implemented. This alternative is expected to meet RAOs at completion of the excavations, because the impacted soil will be removed from the Site. Confirmatory soil sampling would be performed.

Implementability – Technical implementation issues would impede construction of this alternative. Select subslab soil/fill samples exceed RRSCOs, and under this scenario would require excavation and removal. Excavating soil/fill from beneath the building slab,

particularly in subgrade areas of the building, may require specialized techniques and/or may be deemed infeasible where heavy equipment access would be limited and/or where structural supports or load bearing walls might be compromised by the work. Constituents exceeding RRSCOs beneath the slab are not amenable to in-Situ or other non-destructive remedial approaches (i.e., elevated metals in HC-5 and HC-6). As such the feasibility of achieving a Track 2 cleanup is questionable.

Cost – The capital costs for this alternative, including the completed IRMs is estimated at approximately \$1,425,000. Significant expense is associated with material excavation beneath the building slab in non-accessible area and the potential structural shoring required (see Table 13).

Annual certification is estimated at approximately \$2,500 per year

Community Acceptance – Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

8.3.4 Alternative 4 - Unrestricted Use Alternative

An Unrestricted Use alternative would necessitate remediation of all soil/fill where concentrations exceed the 6NYCRR Part 375 Unrestricted Use SCOs. For Unrestricted Use scenarios, excavation and off-site disposal of impacted soil/fill is generally regarded as the most applicable remedial measure, because institutional controls cannot be used to supplement the remedy. As such, the Unrestricted Use alternative assumes that those areas with constituents above Unrestricted Use SCOs would be excavated and disposed at an off-Site commercial solid waste landfill. Following removal and confirmatory sampling of the excavation, the areas would be backfilled with DER-10 approved backfill material.

The Site surface and subsurface soil samples indicate concentrations of VOCs, SVOCs, metals, and pesticides are present in unsaturated soil above USCOs. These areas of the Site would be excavated to rock, approximately 13 fbs. In-situ groundwater treatment would be used to address the residual cVOC contamination remaining in the loading dock excavation. The volume of soil above USCOs is estimated to be greater than 7,000 cubic

yards. Figure 12 shows the approximate extent of additional excavation required to achieve USCOs. Table 14 provides a cost estimate for completion of this alternative.

Overall Protection of Public Health and the Environment – Excavation and off-site disposal to achieve Unrestricted Use SCO's would be protective of public health under any reuse scenario. However, this alternative would permanently use and displace valuable landfill airspace, causing ancillary environmental issues due to reduced landfill capacity, and would require excavating, transporting, and placing a similar volume of clean soil from an off-site borrow source to backfill the excavation, also contributing to significant detrimental off-site environmental issues.

Compliance with SCGs – The Unrestricted Use alternative would be performed in accordance with applicable, relevant, and appropriate standards, guidance, and criteria.

Long-Term Effectiveness and Permanence – The Unrestricted Use alternative would achieve removal of all residual impacted soil/fill; therefore, the Unrestricted Use alternative would provide long-term effectiveness and permanence. Post-remedial monitoring and certifications would not be required.

Reduction of Toxicity, Mobility, or Volume with Treatment – Through removal of all soil/fill above Unrestricted Use SCO's, this alternative would permanently and significantly reduce the toxicity, mobility, and volume of Site contamination.

Short-Term Impact and Effectiveness – There are several potential short-term impacts associated with this alternative as described in the Track 2 RRSCO cleanup above. However, this alternative would significantly increase the duration of time community, workers, and the environment is exposed to fugitive dust and potential off-site exposures during remediation.

Implementability – Technical implementation would be a major barrier to construction of this alternative. Soil/fill samples exceed USCO's, and under this scenario would require excavation and removal. Excavating soil/fill from beneath the building slab

may require specialized techniques and/or may be deemed infeasible in interior areas of the building where heavy equipment access would be limited and/or where structural supports or load bearing walls might be compromised by the work. Constituents exceeding USCOs beneath the slab are not amenable to in-Situ or other non-destructive remedial approaches. As such the feasibility of achieving an Unrestricted cleanup is questionable.

Cost – The capital costs for this alternative, including the completed IRMs is estimated at approximately \$2,100,000. Significant expense is associated with material excavation from beneath the building slab in non-accessible area and the structural shoring required. No long-term monitoring/certifications would be required under this alternative.

Community Acceptance – Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

8.4 Recommended Remedial Measure

Based on the Remedial Alternatives Analysis evaluation, the proposed remedial approach for the Site is Alternative 2 - Track 4 RRSCO cleanup. A Track 4 RRSCO cleanup is fully protective of public health and the environmental, is significantly less disruptive to the community, and is consistent with current and future land use, and represents a cost-effective approach that fully satisfies the RAOs.

In summary this alternative includes the following components:

- **Basement Cleaning Measures**, including cleaning and off-site disposal of residual surface contamination in the basement. The remedial cleaning would include removal and off-site disposal/scrap recycling of former air handler and mechanical equipment, cleaning of the air handler sump, and cleaning of the basement concrete floor and walls to approximately 4 feet above floor elevation. All cleaning residual wastes (floor soil debris and cleaning waters) will be properly handled and disposed off-Site.
- **Universal and Chemical Wastes**, including the collection and off-site disposal of potential mercury lamps and bulbs, batteries, and potential pcb-containing light ballasts. Other miscellaneous chemical wastes and drums (e.g., associated with the former boiler room) will be removed and properly disposed/recycled off-site.

- **Placement of Cover System**, including demarcation layer, DER-10 acceptable backfill in areas without building or hardscape (building, asphalt and concrete) to address remaining contamination above RRSCOs.
- **Implementation of a Site Management Plan (SMP)**. The SMP will include:
 - **Institutional Controls and Engineering Controls (IC/EC)**
Engineering controls include any physical barrier or method employed to actively or passively contain, stabilize, or monitor contaminants; restrict the movement of contaminants; or eliminate potential exposure pathways to contaminants. Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted residential use.
 - **Operation and Maintenance Plan** (not considered applicable to this alternative).
 - **Excavation Work Plan** to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner;
 - **Site Monitoring Plan** that includes: provisions for a Site-wide inspection program to assure that the IC/ECs have not been altered and remain effective; and,
 - **Environmental Easement** filed with Erie County.

9.0 RI/IRM/AAR SUMMARY AND CONCLUSIONS

Based on the data and analyses presented in the preceding sections, we offer the following summary and conclusions:

- Based on the remaining on-Site soil/fill data, no VOCs, SVOCs, metals, PCBs, pesticides, or herbicides exceed RRSCOS, with minor exception beneath the building slab, concrete and asphalt-paved surface lot and cover system, with the vast majority below USCOS.
- Based on the post-IRM groundwater monitoring data, the vast majority of analytes were detected below GWQS, reported as estimated values by the laboratory, or can be described as potential ubiquitous background contamination related to the historic fill material in this section of the City of Buffalo. Furthermore, municipally supplied potable water is available, and on-Site groundwater is not used for potable or other purposes.
- Based on the nature and extent of the impacts identified during the RI, as well as previously known conditions (e.g., Spill report, and elevated VOCs in soil/fill), IRM Work Plans were submitted and approved by NYSDEC with concurrence from the NYSDOH. The completed IRMs included: excavation and off-site disposal of approximately 770 tons of petroleum, metals, PAH and cVOC-impacted soil/fill.
- Based on the Alternatives Analysis, a Track 4 RRSCO cleanup was selected. Additional components of the remedial measures to achieve the select remedial alternative include:
 - Placement of cover system, including 12-inch of approved DER-10 soil material in areas without buildings and hardscape (i.e., asphalt and concrete)
 - Completion of proposed Basement Cleaning Measures
 - Universal and miscellaneous chemical waste disposal
 - Implementation of Site Management Plan.

10.0 REFERENCES

1. Benchmark Environmental Engineering & Science, PLLC, *Remedial Investigation / Alternative Analysis Work Plan*, 500 Seneca Street Site, 500 Seneca, Buffalo, New York, Revised May 2013.
2. Benchmark Environmental Engineering & Science, PLLC, *Interim Remedial Measures Work Plan* (Petroleum Excavation), 500 Seneca Street Site, 500 Seneca Street, Buffalo, New York, December 2014.
3. Benchmark Environmental Engineering & Science, PLLC, *Interim Remedial Measures Work Plan* (Loading Dock Excavation), 500 Seneca Street Site, 500 Seneca Street, Buffalo, New York, December 2014.
4. GZA GeoEnvironmental of New York, *Phase I Environmental Site Assessment*, Seneca and Myrtle Street Properties, Buffalo, New York, prepared for Zdarsky, Sawicki & Agostinelli, LLP, October 2007.
5. GZA GeoEnvironmental of New York, *Phase II Environmental Site Assessment*, 500 Seneca Street, Buffalo, New York, prepared for Zdarsky, Sawicki & Agostinelli, LLP, December 2007.
6. Hazard Evaluations, Inc. *Summary Report, UST Removal and Excavation Report*, 500 Seneca Street, Buffalo, New York, prepared for New Era Cap Company, Inc., January 28, 2008.
7. GZA GeoEnvironmental of New York, *Focused Interior Phase II Environmental Site Assessment*, 500 Seneca Street, Buffalo, New York, prepared for Phillips Lytle, LLP, April 30, 2008.
8. New York State Department of Health, *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006.
9. New York State Department of Environmental Conservation. *DER-10 - Technical Guidance for Site Investigation and Remediation*, dated May 2010.
10. United States Department of Agriculture, Soil Conservation Services, *Soil Survey of Erie County, New York*, dated December 1986.
11. Edward J. Buehler and Irving H. Tesmer, *Geologic Map of Erie County, New York Bedrock Geology*, dated 1963.

12. Camiros. *Buffalo Green Code, Unified Development Ordinance, Public Review Draft*. Prepared for The City of Buffalo, Mayor's Office of Strategic Planning, May 2014.

TABLES

Sample Identifier	Data Source	Depth Sampled/ Screened (fbgs)														Date Sampled
			TCL + CP51 VOCs	TCL VOCs 8260	TCL SVOCs	SVOCs (BN only)	PCBs	Pesticides	Herbicides	TAL Metals	RCRA Metals	Dissolved Metals	Total Cyanide	TO-15		
Surface Soil																
SS-1	Remedial Investigation	0-0.5			X		X	X	X	X					03/06/2014	
SS-2	Remedial Investigation	0-0.5			X		X	X	X	X					03/06/2014	
SS-3	Remedial Investigation	0-0.5				X	X	X		X					03/06/2014	
PISTON ROOM COMPOSITE	Remedial Investigation	--			X		X				X				11/25/2014	
Subsurface Soil/Fill																
SB-1	Remedial Investigation	2-4	X			X	X			X					03/06/2014	
SB-2	Remedial Investigation	4-6				X	X			X					03/06/2014	
SB-3	Remedial Investigation	2-4				X	X			X					03/06/2014	
SB-4	Remedial Investigation	0.5-4				X	X			X					03/06/2014	
SB-5	Remedial Investigation	4-6			X										03/06/2014	
SB-6	Remedial Investigation	5-7				X		X		X					03/06/2014	
SB-7	Remedial Investigation	2-4	X			X	X	X	X	X					03/06/2014	
SB-8	Remedial Investigation	6-8	X			X	X	X	X	X					03/06/2014	
SB-9	Remedial Investigation	2-4				X		X		X					03/06/2014	
SB-10	Remedial Investigation	8-10	X		X		X	X	X	X					04/02/2014	
SB-11	Remedial Investigation	3-5	X		X										04/02/2014	
SB-12	Remedial Investigation	3-5	X		X										04/02/2014	
SB-13	Remedial Investigation	6-8	X		X										04/08/2014	
SB-14	Remedial Investigation	0.3-2			X		X			X					04/08/2014	
SB-14	Remedial Investigation	2-4	X		X		X			X					04/08/2014	
SB-15	Remedial Investigation	0.2-2			X		X	X		X					04/08/2014	
SB-15	Remedial Investigation	2-4				X	X			X					04/08/2014	
SB-16	Remedial Investigation	0.2-2			X		X			X					04/08/2014	
SB-16	Remedial Investigation	2-4				X	X			X					04/08/2014	
HC-1	Remedial Investigation	0.3-1.4					X								03/06/2014	
HC-2	Remedial Investigation	0.4-2					X								03/06/2014	
HC-3	Remedial Investigation	0.5-1.5				X	X					X			04/02/2014	
HC-3	Remedial Investigation	1.5-2.5				X	X					X			04/02/2014	
HC-4	Remedial Investigation	0.7-2				X						X			03/06/2014	
HC-5	Remedial Investigation	0.4-1.7				X						X			03/06/2014	
HC-6	Remedial Investigation	0.3-2				X						X			03/06/2014	
Groundwater																
MW-1	Remedial Investigation	--	X	X	X		X	X	X	X			X		10/09/2013	
MW-2	Remedial Investigation	--	X	X	X		X	X	X	X			X		10/09/2013	
MW-3	Remedial Investigation	--	X		X			X		X					04/08/2014	
MW-3 (2)	Supplemental RI	--		X											04/15/2015	
MW-4	Remedial Investigation	--	X	X	X		X	X	X	X		X	X		10/10/2013	
MW-4 (2)	Supplemental RI	--		X		X		X				X			04/16/2015	
MW-5	Supplemental RI	--		X		X		X				X			04/16/2015	
MW-6	Supplemental RI	--		X		X		X				X			04/16/2015	
MW-7	Supplemental RI	--													04/16/2015	
TW-1	Remedial Investigation	--	X		X					X					03/07/2014	
TW-2	Remedial Investigation	--	X		X					X					04/08/2014	
TW-3	Remedial Investigation	--	X		X					X					04/08/2014	
TW-3 (2)	Supplemental RI	--		X											04/16/2015	
Water																
CISTERN	Remedial Investigation	--	X		X					X					03/07/2014	
MOTOR #1 CONTENTS	Remedial Investigation	--					X								11/25/2014	
BOILER SUMP CONTENTS	Remedial Investigation	--			X		X								11/25/2014	
Air																
SSV-1	Remedial Investigation	--												X	02/27/2014	
AMBIENT #1	Remedial Investigation	--												X	02/27/2014	
SSV-2	Remedial Investigation	--												X	02/27/2014	
AMBIENT #2	Remedial Investigation	--												X	02/27/2014	
SSV-3	Remedial Investigation	--												X	02/27/2014	
AMBIENT #3	Remedial Investigation	--												X	02/27/2014	
OUTSIDE AMBIENT	Remedial Investigation	--												X	02/27/2014	
Wipe																
MOTOR #1 WIPE #1 (HOUSING)	Remedial Investigation	--					X								11/25/2014	
MOTOR #1 WIPE #2 (FLOOR)	Remedial Investigation	--					X								11/25/2014	
MOTOR #2 WIPE #3 (HOUSING)	Remedial Investigation	--					X								11/25/2014	
MOTOR #2 WIPE #4 (FLOOR)	Remedial Investigation	--					X								11/25/2014	
Post-excavation Verification Soil/Fill Samples																
BOTTOM-01 (PETROLEUM IRM)	IRM	--	X												11/17/2014	
BOTTOM-02 (PETROLEUM IRM)	IRM	--	X								X				11/17/2014	
SIDEWALL-NORTH (PETROLEUM IRM)	IRM	--	X												11/17/2014	
SIDEWALL-SOUTH (PETROLEUM IRM)	IRM	--	X												11/17/2014	
SIDEWALL-EAST (PETROLEUM IRM)	IRM	--	X								X				11/17/2014	
SIDEWALL-WEST (PETROLEUM IRM)	IRM	--	X												11/17/2014	
BOTTOM-01 (PAH IRM)	IRM	--			X										11/17/2014	
SIDEWALL-NORTH (PAH IRM)	IRM	--			X										11/17/2014	
SIDEWALL-SOUTH (PAH IRM)	IRM	--			X										11/17/2014	
SIDEWALL-EAST (PAH IRM)	IRM	--			X										11/17/2014	
SIDEWALL-WEST (PAH IRM)	IRM	--			X										11/17/2014	
POST EXC-NORTHWALL (cVOC IRM)	IRM	--		X											01/30/2015	
POST EXC-SOUTHWALL (cVOC IRM)	IRM	--		X											01/30/2015	
POST EXC-EASTWALL (cVOC IRM)	IRM	--		X											01/30/2015	
POST EXC-WESTWALL (cVOC IRM)	IRM	--		X											01/30/2015	

TABLE 2

SUMMARY OF SURFACE SOIL/FILL SAMPLE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

PARAMETER ¹	Unrestricted Use SCOs ²	Restricted Residential Use SCOs ²	Commercial Use SCOs ²	SAMPLE LOCATION (DEPTH)		
				SS-1 (0-0.5')	SS-2 (0-0.5')	SS-3 (0-0.5')
				3/6/2014		
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg ³						
2-Methylnaphthalene	--	--	--	ND	0.035 J	2.1 J
Acenaphthene	20	100	500	ND	0.025 J	4.9
Acenaphthylene	100	100	500	ND	0.011 J	ND
Acetophenone	--	--	--	ND	0.011 J	ND
Anthracene	100	100	500	ND	0.063 J	11
Benzo(a)anthracene	1	1	5.6	ND	0.34	22
Benzo(a)pyrene	1	1	1	ND	0.35	19
Benzo(b)fluoranthene	1	1	5.6	ND	0.52	26
Benzo(ghi)perylene	100	100	500	ND	0.28	10
Benzo(k)fluoranthene	0.8	3.9	56	ND	0.21	12
Biphenyl	--	--	--	ND	ND	0.5 J
Carbazole	--	--	--	ND	0.043 J	6.1
Chrysene	1	3.9	56	ND	0.4	21
Dibenzo(a,h)anthracene	0.33	0.33	0.56	ND	ND	ND
Dibenzofuran	7	59	350	ND	0.018 J	4.3
Fluoranthene	100	100	500	ND	0.57	47
Fluorene	30	100	500	ND	0.025 J	6
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	ND	0.28	12
Naphthalene	12	100	500	ND	0.025 J	4.9
Phenanthrene	100	100	500	ND	0.35	51
Pyrene	100	100	500	ND	0.69	51
Metals - mg/Kg						
Aluminum	--	--	--	12300	2990	10600
Arsenic	13	16	16	3.7	3.9	7.2
Barium	350	400	400	90.9 J	32.7	140
Beryllium	7.2	72	590	2.8	0.39	1.7
Cadmium	2.5	4.3	9.3	ND	0.33	0.79
Calcium	--	--	--	196000	169000	89900
Chromium	30	180	1500	14.4	91.1 J	20.1
Cobalt	--	--	--	0.59	1.5	2.4
Copper	50	270	270	6.5	11.6 J	46.4
Iron	--	--	--	5350 J	13200 J	10500
Lead	63	400	1000	36.3	78.3 J	116
Magnesium	--	--	--	16400	14000 J	13900
Manganese	1600	2000	10000	1230	1650 J	1310
Mercury	0.18	0.81	2.8	ND	0.023	0.061
Nickel	30	310	310	ND	9.2	12.4
Potassium	--	--	--	811	590	914
Silver	2	180	1500	ND	ND	ND
Sodium	--	--	--	645	289	337
Vanadium	--	--	--	9.5	29.6 J	18.9
Zinc	109	10000	10000	17.7	36.3	125
Polychlorinated biphenyls (PCBs) - mg/Kg ³						
Total PCBs	0.1	1	1	ND	ND	ND
Pesticides and Herbicides - mg/Kg ³						
4,4'-DDE	0.0033	8.9	62	0.035 J	0.025 J	0.032 J
4,4'-DDT	0.0033	7.9	47	0.065 J	0.043 J	0.085 J
delta-BHC	0.04	100	500	0.039 B,J	ND	ND
Endrine ketone	--	--	--	ND	ND	0.029 J
gamma-BHC (Lindane)	0.1	1.3	9.2	ND	ND	0.031 J
Methoxychlor	--	--	--	ND	ND	0.041 J

Notes:

- Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
- Values per NYSDEC Part 375 Soil Cleanup Objectives (SCOs).
- Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.
 "--" = No value available for the parameter; Parameter not analysed for.
 J = Estimated value; result is less than the sample quantitation limit but greater than zero.
 B= Compound was found in the blank and sample.

Bold	= Result exceeds Unrestricted Use SCOs.
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.

TABLE 3A

SUMMARY OF HISTORICAL SOIL/FILL SAMPLE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

PARAMETER ¹	Unrestricted Use SCOs ²	Restricted Residential Use SCOs ²	Commercial Use SCOs ²	SAMPLE LOCATION (DEPTH)																SAMPLE LOCATION (DEPTH)						
				SP-1 (2-4')	SP-4 (3-5')	SP-5 (3-5')	SP-7 (1-4')	SP-9 (6-8')	SP-10 (4-6')	SP-11 (6-8')	SP-12 (8-11')	SP-13 (6-8')	SP-14 (6-8')	SP-15 (8-10')	SP-16 (6-8')	SP-16 (8-10')	SP-17 (14-16')	SP-18 (12-15')	500 GAL. UST N. WALL	500 GAL. UST S. WALL	500 GAL. UST E. WALL	500 GAL. UST W. WALL	500 GAL. UST FLOOR 8'	2000 GAL. UST FLOOR	PUMP ISLAND PIPING COMP	
				11/12/2007						2/5/2008										12/13/2007						
Volatile Organic Compounds (VOCs) - mg/Kg ³																										
1,2,4-Trimethylbenzene	3.6	52	190	0.052	ND	ND	--	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND	0.0459	ND	1.52	ND	ND	ND	ND		
1,3,5-Trimethylbenzene	8.4	52	190	ND	ND	ND	--	ND	0.083	ND	ND	ND	ND	ND	ND	ND	ND	0.0417	ND	0.485	ND	ND	ND	ND		
2-Butanone (MEK)	0.12	100	500	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Acetone	0.05	100	500	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Benzene	0.06	4.8	44	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0281	ND	11.7	ND	3.32	ND	ND		
cis-1,2-Dichloroethene	0.25	100	500	ND	ND	ND	--	1	ND	0.58	0.1	0.61	0.41	ND	1.6	1.3	0.26	ND	ND	ND	ND	ND	ND	ND		
Ethylbenzene	1	41	390	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.273	ND	1.61	ND	ND	ND	ND		
Isopropylbenzene (Cumene)	--	--	--	ND	ND	ND	--	ND	0.065	ND	ND	ND	ND	ND	ND	ND	ND	0.0973	ND	0.288	ND	ND	ND	ND		
Methyl tert butyl ether (MTBE)	0.93	100	500	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0336	ND	ND	ND	ND	ND	ND		
Naphthalene	--	--	--	ND	ND	ND	--	ND	0.082	ND	ND	ND	ND	ND	ND	ND	ND	0.534	ND	0.697	ND	ND	ND	ND		
n-Butylbenzene	12	--	--	ND	ND	ND	--	ND	0.088	ND	ND	ND	ND	ND	ND	ND	ND	0.0803	ND	0.408	ND	ND	ND	ND		
n-Propylbenzene	3.9	100	500	ND	ND	ND	--	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	0.237	ND	1.15	ND	ND	ND	ND		
p-Isopropyltoluene	--	--	--	ND	ND	ND	--	ND	0.077	ND	ND	ND	ND	ND	ND	ND	ND	0.0637	ND	ND	ND	ND	ND	ND		
sec-Butylbenzene	11	100	500	ND	ND	ND	--	ND	0.061	ND	ND	ND	ND	ND	ND	ND	ND	0.0646	ND	0.166	ND	ND	ND	ND		
tert-Butylbenzene	5.9	100	500	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Tetrachloroethene	1.3	19	150	ND	ND	ND	--	270	ND	260	5.8	21	30	0.64	150	130	ND	ND	ND	ND	ND	ND	ND	ND		
Toluene	0.7	100	500	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0123	ND	1.32	ND	ND	ND	0.0111		
trans-1,2-Dichloroethene	0.19	100	500	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Trichloroethene	0.47	21	200	ND	ND	ND	--	6	ND	6	1.5	2.1	2.6	ND	5.1	4.7	0.11	ND	ND	ND	ND	ND	ND	ND		
Vinyl chloride	0.02	0.9	13	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Total Xylenes	0.26	100	500	0.054	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.127	0.0092	2.979	ND	ND	ND	0.00918		
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg ³																										
Total SVOCs	--	--	--	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Polychlorinated biphenyls (PCBs) - mg/Kg ³																										
Total PCBs	0.1	1	1	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

- Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
 2. Values per NYSDEC Part 375 Soil Cleanup Objectives (SCOs).
 3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.

"--" = No value available for the parameter; Parameter not analysed for.

Bold	= Result exceeds Unrestricted Use SCOs.
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.

TABLE 3B

SUMMARY OF REMEDIAL INVESTIGATION SUBSURFACE SOIL/FILL SAMPLE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

PARAMETER ¹	Unrestricted Use SCOs ²	Restricted Residential Use SCOs ²	Commercial Use SCOs ²	SAMPLE LOCATION (DEPTH)																											
				SB-1 (2-4)	SB-2 (4-6)	SB-3 (2-4)	SB-4 (0.5-4)	SB-5 (4-6)	SB-6 (5-7)	SB-7 (2-4)	SB-8 (6-8)	SB-9 (2-4)	SB-10 (8-10)	SB-11 (3-5)	SB-12 (3-5)	SB-13 (6-8)	SB-14 (0.3-2)	SB-14 (2-4)	SB-15 (0.2-2)	SB-15 (2-4)	SB-16 (0.2-2)	SB-16 (2-4)	HC-1 (0.3-1.4')	HC-2 (0.4-2.0')	HC-3 (0.5-1.5')	HC-3 (1.5-2.5')	HC-4 (0.7-2.0')	HC-5 (0.4-1.7')	HC-6 (0.3-0.2')		
				3/6/2014									4/2/2014					4/8/2014						3/6/2014			4/2/2014		3/6/2014		
Volatile Organic Compounds (VOCs) - mg/Kg ³																															
1,1-Dichloroethene	0.33	100	500	ND	--	--	--	--	--	ND	ND	--	0.0051 J	ND	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
2-Butanone (MEK)	0.12	100	500	ND	--	--	--	--	--	ND	ND	--	ND	ND	ND	0.0062 J	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
Acetone	0.05	100	500	0.037 J	--	--	--	--	--	ND	0.027 J	--	ND	ND	0.0098 J	0.026 J	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
Benzene	0.06	4.8	44	ND	ND	ND	0.0016 J	ND	--	ND	ND	--	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
cis-1,2-Dichloroethene	0.25	100	500	ND	--	--	--	ND	--	ND	ND	--	0.2	0.018	0.0023 J	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
n-Butylbenzene	12	--	--	ND	ND	ND	ND	0.33	--	ND	ND	--	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
n-Propylbenzene	3.9	100	500	ND	ND	ND	ND	0.36	--	ND	ND	--	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
p-Isopropyltoluene	--	--	--	ND	--	--	--	--	--	ND	ND	--	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
sec-Butylbenzene	11	100	500	ND	ND	ND	ND	0.17	--	ND	ND	--	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
tert-Butylbenzene	5.9	100	500	ND	ND	ND	ND	0.026 J	--	ND	ND	--	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
Tetrachloroethene	1.3	19	150	ND	--	--	--	--	--	ND	ND	--	3.4	14	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
Toluene	0.7	100	500	0.0022 J	ND	ND	0.0037 J	ND	--	ND	ND	--	0.00046 J	ND	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene	0.19	100	500	ND	--	--	--	--	--	ND	ND	--	0.0028 J	0.0026 J	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
Trichloroethene	0.47	21	200	ND	--	--	--	--	--	ND	ND	--	1.3	0.56	0.0016 J	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
Vinyl chloride	0.02	0.9	13	ND	--	--	--	--	--	ND	ND	--	0.0066	0.0067	0.00092 J	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
Total Xylenes	0.26	100	500	0.0029 J	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg ³																															
2-Methylnaphthalene	--	--	--	0.014 J	0.0085 J	0.044 J	0.37	0.076 J	0.34 J	0.088 J	0.43	0.016 J	ND	ND	ND	ND	ND	ND	0.013 J	ND	ND	ND	--	--	ND	0.0053 J	0.065 J	0.045 J	0.64 J	ND	
Acenaphthene	20	100	500	0.0068 J	ND	0.052 J	0.027 J	ND	0.99	0.0087 J	0.31	0.016 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	0.0022 NJ	ND	0.045 J	0.074 J	ND	ND	--	
Acenaphthylene	100	100	500	0.0084 J	ND	0.055 J	0.022 J	ND	0.041 J	0.034 J	0.016 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	0.019 J	0.026 J	ND	ND	--	
Acetophenone	--	--	--	ND	ND	0.0089 J	0.047 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	--	
Anthracene	100	100	500	0.019 J	ND	0.2	0.071 J	ND	1.4	0.029 J	0.57	0.039 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	0.009 J	ND	0.089 J	0.14 J	ND	ND	--	
Benzaldehyde	--	--	--	0.062 J	ND	0.05 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.021 J	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	--	
Benzo(a)anthracene	1	1	5.6	ND	ND	0.66	0.2	ND	2.9	ND	0.81	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	0.019 J	0.26	0.4	ND	ND	--	
Benzo(a)pyrene	1	1	1	0.055 J	ND	0.56	0.19	ND	2.6	0.29	0.75	0.084 J	ND	0.0052 J	0.061 J	ND	ND	ND	0.021 J	ND	ND	ND	--	--	0.032 J	0.0076 J	0.24	0.36	ND	--	
Benzo(b)fluoranthene	1	1	5.6	0.075 J	ND	0.69	0.25	ND	3.3	0.31	0.87	0.13 J	ND	0.0042 J	ND	ND	ND	ND	0.028 J	ND	ND	ND	--	--	0.046 J	0.016 J	0.32	0.45	ND	--	
Benzo(ghi)perylene	100	100	500	0.03 J	ND	0.35 J	0.13 J	ND	1.5 J	0.21 J	0.52 J	0.048 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	0.02 J	0.0073 J	0.18	0.23	ND	ND	--	
Benzo(k)fluoranthene	0.8	3.9	56	0.03 J	ND	0.32	0.093 J	ND	1.3	0.15 J	0.41	0.049 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	0.15 J	0.2 J	ND	ND	--	
Biphenyl	--	--	--	ND	ND	ND	0.036 J	ND	0.099 J	ND	0.068 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	0.011 J	ND	0.13 J	ND	0.13 J	
Bis(2-ethylhexyl) phthalate	--	--	--	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	--	
Carbazole	--	--	--	ND	ND	0.042 J	0.04 J	ND	0.82	0.014 J	0.22	0.011 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	0.0062 J	ND	0.042 J	0.06 J	ND	ND	--	
Chrysene	1	3.9	56	0.063 J	ND	0.61	0.2	ND	3.3	0.22	0.8	0.13 J	ND	ND	ND	ND	ND	ND	0.026 J	ND	ND	ND	--	--	0.051 J	0.022 J	0.32	0.43	ND	--	
Dibenzo(a,h)anthracene	0.33	0.33	0.56	ND	ND	0.11 J	ND	ND	0.49 J	0.06 J	0.11 J	ND	ND	0.0079 J	ND	ND	ND	ND	ND	ND	ND	--	--	0.0076 NJ	0.0029 J	ND	ND	ND	ND	--	
Dibenzofuran	7	59	350	0.0082 J	ND	0.044 J	0.11 J	ND	0.74 J	0.028 J	0.29	0.012 J	ND	ND	ND	ND	ND	ND	0.0039 J	ND	ND	ND	--	--	0.0069 NJ	ND	0.041 J	0.062 J	0.062 NJ	ND	--
Fluoranthene	100	100	500	0.079 NJ	0.0085 J	1.1	0.3	ND	6	0.18	1.4	0.14 J	ND	ND	ND	ND	0.0075 J	ND	0.032 J	ND	ND	ND	--	--	0.065 J	0.016 J	0.46	0.67	0.12 J	ND	--
Fluorene	30	100	500	0.0071 J	ND	0.066 J	0.033 J	ND	0.87	ND	0.35	0.015 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	0.04 J	0.07 J	ND	ND	--
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	ND	ND	0.43	0.15 J	ND	1.7	0.25	0.62	0.077 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	0.019 J	0.0061 NJ	0.18	0.23	ND	ND	--	
Naphthalene	12	100	500	0.016 J	0.0093 J	0.039 J	0.25	0.1 J	0.79 J	0.064 J	0.66	0.012 J	ND	ND	ND	0.0079 J	ND	0.0054 J	0.015 J	0.0078 J	0.0095 J	0.0089 J	--	--	0.018 J	ND	0.041 J	0.044 J	0.26 J	ND	--
Phenanthrene	100	100	500	0.08 J	0.01 J	0.73	0.44	ND	8	0.12 J	2	0.15 J	ND	ND	ND	0.0039 J	ND	0.0063 J	ND	0.027 J	ND	ND	--	--	0.05 J	0.014 J	0.5	0.75	0.18 J	ND	--
Pyrene	100	100	500	0.11 J	0.01 J	1.55	0.44	ND	7.8	0.33	1.9	0.19	ND	ND	ND	ND	0.007 J	ND	0.036 J	ND	ND	ND	--	--	0.052 J	0.013 J	0.62	0.88	0.2 J	ND	--
Metals - mg/Kg																															
Aluminum	--	--	--	10100	12600	5930	1810	--	10200	9490	4040	9710	3250	--	--	--	--	8870	14700	14900	11200	11100	9190	--	--	--	--	--	--	--	--
Arsenic	13	16	16	8.1	ND	6.9	24.3	--	5.9	6.7	9.5	5.9	ND	--	--	--	--	3.6	6.4	8.7	3.3	5.2	4.5	--	--	7.1	5.8	6.6	10.7	6.9	--
Barium	350	400	400																												

TABLE 4A

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

PARAMETER ¹	GWQS ²	Sample Location				
		SP-1	SP-9	SP-11	SP-12	Basement Sump
		11/12/07		02/05/08		03/19/08
Volatile Organic Compounds (VOCs) - ug/L						
1,1-Dichloroethene	5	ND	5.2	1.6	ND	ND
n-Butylbenzene	5	11	ND	ND	ND	ND
sec-Butylbenzene	5	11	ND	ND	ND	ND
Benzene	5	970	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	1.4
cis-1,2-Dichloroethene	5	ND	380	120	8.6	ND
Ethylbenzene	5	11	ND	ND	ND	ND
Isopropylbenzene	5	34	ND	ND	1	ND
n-Propylbenzene	5	75	ND	ND	ND	ND
Tetrachloroethene	5	ND	20000	5300	84	ND
trans-1,2-Dichloroethene	5	ND	4.8	3	ND	ND
Trichloroethene	5	ND	2100	560	50	ND
Vinyl chloride	2	ND	6.7	3.8	3.5	ND
Total Xylene	5	51	ND	ND	ND	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDCE Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA (TOGS 1.1.1).

Definitions:

ND = Parameter has a GWQS of non-detect; Parameter not detected above laboratory detection limit.

BOLD = Result exceeds GWQS.

TABLE 4B

SUMMARY OF REMEDIAL INVESTIGATION GROUNDWATER SAMPLE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

PARAMETER ¹	GWQS ²	Sample Location													
		MW-1	MW-2	MW-3	MW-3	MW-4	MW-4	MW-5	MW-6	MW-7	TW-1	TW-2	TW-3	TW-3	CISTERN
		10/09/13		04/08/14	04/16/15	10/10/13		04/16/15			03/07/14	04/08/14		04/16/15	03/07/14
Volatile Organic Compounds (VOCs) - ug/L															
2-Butanone (MEK)	50	2.4 J	ND	ND	ND	ND	ND	2.3 J	ND	ND	ND	ND	ND	ND	ND
Acetone	50	10	4.5 J	ND	2.1 J	7.5 J	ND	150	7.3	7.6	6.5 J	ND	9.2 J	2.1 J	ND
Carbon disulfide	--	ND	ND	ND	ND	0.46 J	ND	ND	1.1 J	ND	ND	ND	ND	ND	ND
Cyclohexane	--	ND	ND	ND	ND	0.21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	1.6 J	ND	ND	ND	420	ND	ND	ND
Methylcyclohexane	--	0.38 J	ND	ND	ND	0.31 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	2500 D	1.38 J	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	0.37 J	ND	ND	ND	950	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	0.28 J	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs) - ug/L															
2,4-Dimethylphenol	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4 J	ND	--	ND
2-Methylnaphthalene	--	ND	ND	ND	ND	ND	ND	0.16 J	0.11 J	ND	ND	2.2 J	ND	--	ND
2-Methylphenol	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8 J	ND	--	ND
3-Methylphenol/4-Methylphenol	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.7	ND	--	ND
Acenaphthene	20	0.66 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Acetophenone	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	--	ND
Anthracene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.62 J	1 J	ND	--	ND
Benzaldehyde	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.87 J *	ND	ND	--	ND
Benzo(a)anthracene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	0.82 NJ	0.8 J	--	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96 J	0.69 J	0.87 J	--	ND
Benzo(b)fluoranthene	0.002	ND	ND	2.3 J	ND	ND	ND	ND	ND	ND	1.5 J	1.4 J	1.2 J	--	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5 J	3.9 J	3.1 J	--	ND
Carbazole	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.48 J	1.1 NJ	ND	--	ND
Chrysene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	0.49 J	0.56 J	--	ND
Dibenz(a,h)anthracene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57 J	ND	--	ND
Diethyl phthalate	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.32 J	8.1	0.91 J	--	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	3.3 J	1.4 J	--	ND
Fluoranthene	50	ND	ND	2.6 J	ND	ND	ND	ND	ND	0.05 J	2.6 J	1.7 J	1.4 J	--	ND
Fluorene	50	ND	ND	ND	ND	ND	ND	ND	0.06 J	ND	0.58 J	ND	ND	--	ND
Naphthalene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	1.4 J	ND	--	ND
Phenanthrene	50	ND	ND	ND	ND	ND	ND	0.13 J	0.24	0.07 J	ND	2.6 J	0.93 J	--	ND
Phenol	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.78 J	4.4 J	0.49 NJ	--	ND
Pyrene	50	ND	ND	1.6 J	ND	ND	ND	ND	ND	ND	1.9 J	1 J	1 J	--	ND
Total Metals - ug/L															
Aluminum	--	1100	290	10	--	7900	--	--	--	--	1600	33.3	439	--	ND
Arsenic	25	ND	ND	ND	--	ND	--	--	--	--	ND	0.047	0.16	--	ND
Barium	1000	100	110	0.38	--	170	--	--	--	--	160	0.95	15.3	--	69
Beryllium	3	ND	ND	ND	--	ND	--	--	--	--	ND	0.0021	0.018	--	ND
Cadmium	5	ND	ND	ND	--	ND	--	--	--	--	ND	0.0035	0.022	--	ND
Calcium	--	295000	112000	121	--	228000	--	--	--	--	48200	662	5000	--	35700
Chromium	50	ND	ND	0.015	--	12	--	--	--	--	6.6	0.062	0.52	--	ND
Cobalt	5	7.1	ND	0.0049	--	ND	--	--	--	--	14	1.4	0.28	--	ND
Copper	200	ND	ND	0.027	--	ND	--	--	--	--	23	0.14	3	--	ND
Cyanide	200	ND	ND	ND	--	ND	2 J	2 J	2 J	2 J	ND	ND	ND	--	--
Iron	300	1400	290	10.4	--	9500	--	--	--	--	4800	59.8	404	--	ND
Lead	25	ND	ND	0.21	--	ND	--	--	--	--	26	0.15	8.7	--	ND
Magnesium	35000	161000	24300	53.7	--	136000	--	--	--	--	6000	144	372	--	7300
Manganese	300	410	360	0.17	--	320	--	--	--	--	230	4.2	46.8	--	ND
Mercury	0.7	ND	ND	ND	--	ND	--	--	--	--	ND	0.0023 B	0.03 B	--	ND
Nickel	100	ND	ND	0.011	--	10	--	--	--	--	18	0.16	0.76	--	ND
Potassium	--	6900	3600	7.3	--	8300	--	--	--	--	10900 B7	30.5	120	--	14200 B7
Silver	50	ND	ND	ND	--	ND	--	--	--	--	ND	ND	0.019	--	ND
Sodium	20000	493000	133000	82.1	--	64100	--	--	--	--	517000	352	46.4	--	81200
Vanadium	14	ND	ND	0.02	--	20	--	--	--	--	ND	0.068	0.65	--	ND
Zinc	2000	13	ND	0.23	--	28	--	--	--	--	96	0.82	7.6	--	20
Dissolved Metals - ug/L															
Arsenic	25	--	--	--	--	ND	ND	0.29 J	0.44 J	0.18 J	--	--	--	--	--
Barium	1000	--	--	--	--	130	177.1	162.6	152.7	356.4	--	--	--	--	--
Cadmium	5	--	--	--	--	ND	ND	ND	0.06 J	ND	--	--	--	--	--
Calcium	--	--	--	--	--	136	--	--	--	--	--	--	--	--	--
Chromium	50	--	--	--	--	ND	1.09	0.8 J	1.1	1.04	--	--	--	--	--
Copper	200	--	--	--	--	ND	0.4 J	0.3 J	0.29 J	0.55 J	--	--	--	--	--
Iron	300	--	--	--	--	310	--	--	--	--	--	--	--	--	--
Lead	25	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--
Magnesium	35000	--	--	--	--	113000	--	--	--	--	--	--	--	--	--
Manganese	300	--	--	--	--	110	36.4	2660	513	162.1	--	--	--	--	--
Mercury	0.7	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--
Nickel	100	--	--	--	--	ND	0.74	8	11.53	6.01	--	--	--	--	--
Potassium	--	--	--	--	--	4800	--	--	--	--	--	--	--	--	--
Sodium	20000	--	--	--	--	63000	--	--	--	--	--	--	--	--	--
Zinc	2000	--	--	--	--	ND	13.44	12.13	17.09	17.5	--	--	--	--	--
PCB (ug/L)															
Total PCBs	0.09	ND	ND	--	--	ND	--	--	--	--	--	--	--	--	--
Pesticides and Herbicides - ug/L															
4,4'-DDD	0.3	ND	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
4,4'-DDE	0.2	ND	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
4,4'-DDT	0.2	ND	ND	ND	--	ND	0.039 J	0.039 J	ND	ND	--	--	--	--	--
Aldrin	ND	0.14 J	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
alpha-BHC	0.01	0.05 J	0.065 J	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
beta-BHC	0.01	ND	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
delta-BHC	0.01	0.093 J	ND	ND	--	0.017 NJ	ND	ND	ND	ND	--	--	--	--	--
gamma-BHC (Lindane)	0.05	0.071 J	0.042 NJ	0.012 J	--	0.019 NJ	ND	ND	ND	ND	--	--	--	--	--
gamma-Chlordane	0.05	ND	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
alpha-Chlordane	0.05	ND	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
Dieldrin	0.004	ND	ND	ND	--	0.013 J	ND	ND	ND	ND	--	--	--	--	--
Endosulfan I	--	ND	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
Endosulfan II	--	ND	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
Endosulfan Sulfate	--	ND	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
Endrin	ND	0.098 NJ	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
Endrin Aldehyde	5	0.16 NJ	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
Endrin Ketone	5	ND	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
Heptachlor	0.04	0.091 J	ND	0.041 J	--	ND	ND	ND	ND	ND	--	--	--	--	--
Heptachlor epoxide	0.03	ND	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
Methoxychlor	35	0.18 NJ	0.082 NJ	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
Toxaphene	0.06	ND	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.

2. Values per NYSEDEC Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA (TOGS 1.1.1)

3. MW-3 was not sampled in October 2013 because the well was dry; Well was sampled in April 2014 with a limited volume of water produced.

Definitions:

ND = Parameter has a GWQS of non-detect; Parameter not detected above laboratory detection limit.

-- = No value available for the parameter; Parameter not analysed for.

J = Estimated value; result is less than the reporting limit but greater than zero.

D = Dilution required due to high concentration of target analyte above the laboratory reporting limit.

* = Laboratory control sample exceeds the control limits.

B7 = Compound detected in method blank at or above method detection limit. Concentration in sample was 10 times above concentration found in the blank.

BOLD = Result exceeds GWQS.

TABLE 5A
SUMMARY OF HISTORIC AIR SAMPLING ANALYTICAL RESULTS
REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT
500 SENECA STREET SITE
BUFFALO, NEW YORK

Parameter ¹	Sample Location				
	AMBIENT WAREHOUSE	SUBSLAB WAREHOUSE	AMBIENT OFFICE	SUBSLAB OFFICE	AMBIENT BASEMENT
	3/19/2008				7/5/2007
Volatile Organics Compounds (VOCs) - ug/m ³					
1,2,4-Trimethylbenzene	0.949	1.2	0.899	1.3	ND
1,3,5-Trimethylbenzene	0.55	1	0.6	0.9	ND
1,4-Dichlorobenzene	1.77	ND	1.83	ND	ND
2,2,4-Tyrimethylpentane	ND	0.57	ND	0.52	ND
4-ethyltoluene	ND	0.65	ND	0.75	ND
Acetone	16.2	27	13.9	22	14.1
Benzene	1.56	1.9	1.46	1.9	1.56
Carbon disulfide	0.538	3.4	0.601	3.2	0.538
Carbon tetrachloride	0.703	0.7	0.831	0.64	0.767
Chloroform	ND	0.99	ND	ND	ND
Chloromethane	0.945	ND	1.01	0.23	1.11
Cyclohexane	1.19	26	ND	6.6	0.805
Ethyl acetate	1.72	0.92	0.769	1.3	1.28
Ethylbenzene	0.927	1.3	0.485	2	0.53
Freon 11	1.37	1.7	1.54	1.8	1.66
Freon 12	4.52	4.1	4.78	4.5	3.77
Heptane	2.08	3.9	0.583	4.5	0.542
Hexane	1	3	0.967	2.8	1.04
Total Xylene	3.58	5	1.988	7.2	1.894
Methyl Ethyl Ketone	2.01	2	1.08	2.4	ND
Methyl Isobutyl Ketone	0.749	0.58	0.708	0.42	1.11
Methylene chloride	2.05	1.8	1.52	2.4	1.2
Styrene	0.476	1.2	0.39	1.6	ND
Tetrachloroethylene	1.38	13	1.59	21	2.21
Tetrahydrofuran	ND	ND	ND	0.51	ND
Toluene	35.4	5.1	2.8	7.5	4.63
Trichloroethene (TCE)	0.655	0.82	0.437	1.7	0.273

Notes:

1. Only compounds were detected in the samples presented on this table.
2. Analytical testing completed by Centek Laboratories, in Syracuse, New York.
3. ug/m³ = micrograms per cubic meter.
4. ND = Non-Detect

TABLE 5B

HISTORIC AIR SAMPLING RESULTS VS. NYSDOH MATRICES

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

Sample Location	Trichloroethene (TCE)		Carbon Tetrachloride		Vinyl Chloride		Tetrachloroethene (PCE)		1,1-Dichloroethene		cis-1,2-Dichloroethene		1,1,1-Trichloroethane	
	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 2
SUBSLAB WAREHOUSE	0.82	I, R	0.7	I, R	ND	NFA	13	NFA	ND	NFA	ND	NFA	ND	NFA
AMBIENT WAREHOUSE	0.655		0.703		ND		1.38		ND		ND		ND	
SUBSLAB OFFICE	1.7	I, R	0.64	I, R	ND	NFA	21	NFA	ND	NFA	ND	NFA	ND	NFA
AMBIENT OFFICE	0.437		0.831		ND		1.59		ND		ND		ND	
AMBIENT BASEMENT	0.273	I, R	0.767	I, R	ND	NFA	2.21	NFA	ND	NFA	ND	NFA	ND	NFA

Notes:

1. Soil Vapor/Indoor Air Matrices per Department of Health (DOH) guidance from October 2006 (Updated June 2007).

2. Samples were collected March 19, 2008.

ND = Not Detected

NFA = No further action.

I, R = Take reasonable and practical actions to identify source(s) and reduce exposures.

TABLE 6A
SUMMARY OF REMEDIAL INVESTIGATION AIR SAMPLING ANALYTICAL RESULTS
REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT
500 SENECA STREET SITE
BUFFALO, NEW YORK

Parameter ¹	Sample Location						
	SSV-1	Ambient #1	SSV-2	Ambient #2	SSV-3	Ambient #3	Outside Ambient
<i>Volatile Organics Compounds (VOCs) - ug/m³</i>							
Benzene	ND	0.15	0.27	0.15	0.33	0.16	0.16
Cyclohexane	ND	ND	1.14	ND	1.85	ND	ND
Dichlorodifluoromethane	ND	0.48	ND	0.52	ND	0.56	0.51
n-Heptane	ND	0.041	1.07	0.041	0.91	0.042	0.047
n-Hexane	ND	0.095	1.32	0.082	1.66	0.089	0.086
Trichlorofluoromethane	0.2	0.19	ND	ND	ND	ND	ND
Tetrachloroethene (PCE) ⁴	ND	ND	0.23	0.069	ND	0.061	ND
Toluene	0.24	0.13	0.92	0.18	0.26	0.11	0.093
Trichloroethene (TCE) ³	0.62	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	0.22	ND	0.23	0.22
Xylene, Total	ND	0.055	ND	0.043	ND	0.057	0.055
Carbon tetrachloride ³	ND	0.05	ND	0.061	ND	0.062	0.066

Notes:

1. Only those parameters detected above the method detection limit, at a minimum of one location, are presented in this table.
 2. Constituent monitored under NYSDOH Vapor/ Indoor Air Quality Standards - October 2006/June 2007.
 3. NYSDOH Decision Matrix 1 used to determine appropriate corrective action.
 4. NYSDOH Decision Matrix 2 used to determine appropriate corrective action.
 5. Samples collected on February 27, 2014.
- ND = Compound analyzed but not detected at a concentration above the reporting limit.
SSV = Subslab Soil Vapor

TABLE 6B

REMEDIAL INVESTIGATION AIR SAMPLING RESULTS VS. NYSDOH MATRICES

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

Sample Location	Trichloroethene (TCE)		Carbon Tetrachloride		Vinyl Chloride		Tetrachloroethene (PCE)		1,1-Dichloroethene		cis-1,2-Dichloroethene		1,1,1 -Trichloroethane	
	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 1	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 2	Lab Reported Concentration (ug/m ³)	Soil Vapor / Indoor Air Matrix 2
SSV-1	0.62	NFA	ND	NFA	ND	NFA	ND	NFA	ND	NFA	ND	NFA	ND	NFA
Ambient #1	ND		0.05		ND		ND		ND		ND		ND	
SSV-2	ND	NFA	ND	NFA	ND	NFA	0.23	NFA	ND	NFA	ND	NFA	ND	NFA
Ambient #2	ND		0.061		ND		0.069		ND		ND		ND	
SSV-3	ND	NFA	ND	NFA	ND	NFA	ND	NFA	ND	NFA	ND	NFA	ND	NFA
Ambient #3	ND		0.062		ND		0.061		ND		ND		ND	
Outside Ambient	ND	--	0.066	--	ND	--	ND	--	ND	--	ND	--	ND	--

Notes:

1. Samples collected February 27, 2014.
 2. Soil Vapor/Indoor Air Matrices per Department of Health (DOH) guidance from October 2006 (Updated June 2007).
- ND = Not Detected
NFA = No further action.
SSV = Subslab Soil Vapor

TABLE 7

SUMMARY OF BASEMENT FLOOR SAMPLING ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

PARAMETER ¹	Unrestricted Use SCOs ²	Restricted Residential Use SCOs ²	Commercial Use SCOs ²	Sample Location
				Basement Mechanical Room (Floor Comp.)
				11/25/2014
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg ³				
Benzo(a)anthracene	1	1	5.6	1.9 J
Benzo(a)pyrene	1	1	1	4.5 J
Benzo(b)fluoranthene	1	1	5.6	7.2 J
Benzo(ghi)perylene	100	100	500	1.3 J
Benzo(k)fluoranthene	0.8	3.9	56	1.1 J
Chrysene	1	3.9	56	2.3 J
Fluoranthene	100	100	500	3 J
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	7.2 J
Phenanthrene	100	100	500	1.7 J
Pyrene	100	100	500	2.3 J
Total PAHs	--	--	500	32.50
Metals - mg/Kg				
Arsenic	13	16	16	108
Barium	350	400	400	5090
Cadmium	2.5	4.3	9.3	5.5
Chromium	30	180	1500	95.8
Lead	63	400	1000	4170
Mercury	0.18	0.81	2.8	1.6
Polychlorinated biphenyls (PCBs) - mg/Kg ³				
Total PCBs	0.1	1	1	ND

Notes:

- Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
- Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
- Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.
 "--" = No value available for the parameter; Parameter not analysed for.
 J = Estimated value; result is less than the sample quantitation limit but greater than zero.

Bold	= Result exceeds Unrestricted Use SCOs.
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.

TABLE 8

SUMMARY OF BASEMENT LIQUID/WATER SAMPLING ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

PARAMETER ¹	Sample Location	
	Motor #1 Contents	Blower Sump
	11/25/2014	
Semi-Volatile Organic Compounds (SVOCs) - ug/L		
2,6-Dinitrotoluene	--	4.4 J
Benzo(a)anthracene	--	ND
Benzo(a)pyrene	--	ND
Benzo(b)fluoranthene	--	ND
Benzo(ghi)perylene	--	ND
Benzo(k)fluoranthene	--	ND
Chrysene	--	ND
Fluoranthene	--	ND
Indeno(1,2,3-cd)pyrene	--	ND
Phenanthrene	--	ND
Pyrene	--	ND
Polychlorinated biphenyls (PCBs) - ug/L		
Aroclor 1242	ND	1.2
Total PCBs	ND	1.2

Notes:

- Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds reported as ND.

Definitions:

ND = Parameter not detected above laboratory detection limit.

"--" = Parameter not analysed for.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

TABLE 9

SUMMARY OF REMEDIAL INVESTIGATION PCB WIPE SAMPLE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

PARAMETER ¹	SAMPLE LOCATION			
	Motor #1		Motor #2	
	Wipe #1 (Housing)	Wipe #2 (Floor)	Wipe #3 (Housing)	Wipe #4 (Floor)
	11/25/2014			
Polychlorinated biphenyls (PCBs) - ug/Abs (100 square centimeters)				
Aroclor 1016	ND	2.9 J	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
Total PCBs	ND	2.9	ND	ND

Notes:

- Sample results were reported by the laboratory in ug/Abs (per 100 square centimeters)

Definitions:

ND = Parameter not detected above laboratory detection limit.

"--" = No value available for the parameter; Parameter not analysed for.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

TABLE 10

SUMMARY OF PETROLEUM IRM POST-EXCAVATION CONFIRMATORY SOIL SAMPLE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

PARAMETER ¹	Unrestricted Use SCOs ²	Restricted Residential Use SCOs ²	Commercial Use SCOs ²	SAMPLE LOCATION										
				Petroleum IRM Excavation						PAH (SS-3) IRM Excavation				
				Bottom-01	Bottom-02	Sidewall- North	Sidewall- South	Sidewall- East	Sidewall- West	Bottom-01	Sidewall- North	Sidewall- South	Sidewall- East	Sidewall- West
				11/17/2014										
Volatile Organic Compounds (VOCs) - mg/Kg ³														
Acetone	0.05	100	500	0.025 J	0.048 J	0.019 J	ND	0.041 J	ND	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg ³														
Benzo(a)anthracene	1	1	5.6	--	--	--	--	--	--	ND	1.8 J	0.24 J	0.53 J	ND
Benzo(a)pyrene	1	1	1	--	--	--	--	--	--	ND	2.5 J	0.92 J	1.1 J	0.41 J
Benzo(b)fluoranthene	1	1	5.6	--	--	--	--	--	--	0.66 J	4.2	1.5 J	1.8 J	0.66 J
Benzo(ghi)perylene	100	100	500	--	--	--	--	--	--	ND	0.86 J	ND	ND	ND
Benzo(k)fluoranthene	0.8	3.9	56	--	--	--	--	--	--	ND	0.83 J	ND	0.29 J	ND
Chrysene	1	3.9	56	--	--	--	--	--	--	ND	1.6 J	ND	0.47 J	ND
Fluoranthene	100	100	500	--	--	--	--	--	--	ND	3.7 J	0.45 J	1 J	0.1 J
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	--	--	--	--	--	--	ND	3.8 J	1.7 J	ND	ND
Phenanthrene	100	100	500	--	--	--	--	--	--	ND	2.8 J	0.33 J	0.82 J	ND
Pyrene	100	100	500	--	--	--	--	--	--	ND	2.9 J	0.36 J	0.74 J	ND
Metals - mg/Kg														
Arsenic	13	16	16	--	5.4	--	--	ND	--	--	--	--	--	--
Barium	350	400	400	--	190	--	--	97.1	--	--	--	--	--	--
Cadmium	2.5	4.3	9.3	--	0.79	--	--	0.25	--	--	--	--	--	--
Chromium	30	180	1500	--	26.5	--	--	19.8	--	--	--	--	--	--
Lead	63	400	1000	--	23.9	--	--	16.5	--	--	--	--	--	--
Mercury	0.18	0.81	2.8	--	0.063	--	--	0.029	--	--	--	--	--	--

Notes:

- Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
- Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
- Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.

"--" = No value available for the parameter; Parameter not analysed for.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

Bold	= Result exceeds Unrestricted Use SCOs.
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.

TABLE 11

SUMMARY OF LOADING DOCK IRM POST EXCAVATION CONFIRMATORY SOIL SAMPLE ANALYTICAL RESULTS

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

PARAMETER ¹	Unrestricted Use SCOs ²	Restricted Residential Use SCOs ²	Commercial Use SCOs ²	SAMPLE LOCATION			
				Loading Dock IRM Excavation			
				Northwall	Southwall	Eastwall	Westwall
				1/30/2015			
Volatile Organic Compounds (VOCs) - mg/Kg ³							
2-Butanone (MEK)	0.12	100	500	0.0014 J	ND	ND	ND
Acetone	0.05	100	500	0.015	0.0084 J	0.013	0.85 J
cis-1,2-Dichloroethene	0.25	100	500	0.0014	0.00091 J	0.0031	0.072 J
Tetrachloroethene	1.3	19	150	0.027	0.0049	0.0046	17
Trichloroethene	0.47	21	200	0.0058	0.0014	0.00058 J	0.52

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.

"--" = No value available for the parameter; Parameter not analysed for.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

Bold	= Result exceeds Unrestricted Use SCOs.
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.

TABLE 12

ALTERNATIVE 2 - TRACK 4 RRSCO COST ESTIMATE

REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

Item	Quantity	Units	Unit Cost	Total Cost
<u>IRM Completed</u>				
Petroleum IRM Excavation	1	LS	\$ 65,000	\$ 65,000
Loading Dock IRM Excavation and Disposal	1	LS	\$ 100,000	\$ 100,000
Verification Sampling	13	EA	\$ 600	\$ 7,800
ASD System	1	LS	\$ 30,000	\$ 30,000
In-Situ Chemical Feed System	1	LS	\$ 15,000	\$ 15,000
				\$ 217,800
<u>Additional Remedial Measures</u>				
Basement Remedial Cleaning	1	EST	\$ 15,000	\$ 15,000
Universal and Chemical Wastes	1	EST	\$ 12,000	\$ 12,000
Cover System (asphalt, concrete and soil cover)	1	EST	\$ 250,000	\$ 250,000
Backfill-Topsoil Analytical Sampling	10	EA	\$ 500	\$ 5,000
				\$ 282,000
<u>Site Restoration</u>				
Concrete Slab Restoration	150	CY	\$ 185	\$ 27,750
Building Masonry Restoration	1	EST	\$ 30,000	\$ 30,000
				\$ 57,750
Subtotal:				\$ 557,550
<u>Final Engineering Report/Site Management Plan</u>				\$ 30,000
Subtotal Capital Cost				\$ 587,550
Health and Safety (3%)				\$ 16,727
Engineering/Contingency (25%)				\$ 139,388
Total Capital Cost				\$ 743,660
Annual Operation Maintenance & Monitoring (OM&M):				
Annual Certification	1	Yr	\$ 2,500	\$ 2,500
Total Annual OM&M Cost				\$ 2,500
Capital Cost				\$ 744,000

TABLE 13

ALTERNATIVE 3 - TRACK 2 RRSCO COST ESTIMATE

REMEDIAL INVESTIGATION / ALTERNATIVE ANALYSIS REPORT

500 SENECA STREET SITE

BUFFALO, NEW YORK

Item	Quantity	Units	Unit Cost	Total Cost
<u>IRM Completed</u>				
Petroleum IRM Excavation and Disposal	1	LS	\$ 65,000	\$ 65,000
Loading Dock IRM Excavation and Disposal	1	LS	\$ 100,000	\$ 100,000
Verification Sampling	13	EA	\$ 600	\$ 7,800
ASD System	1	LS	\$ 30,000	\$ 30,000
In-Situ Chemical Feed System	1	LS	\$ 15,000	\$ 15,000
				\$ 217,800
<u>Additional Remedial Measures</u>				
Basement Remedial Cleaning	1	EST	\$ 15,000	\$ 15,000
Universal and Chemical Wastes	1	EST	\$ 25,000	\$ 25,000
				\$ 40,000
<u>Impacted Soil/Fill Removal</u>				
Exterior Soil/Fill Excavation	6288	TON	\$ 15	\$ 94,320
Interior Soil/Fill Excavation	144	TON	\$ 100	\$ 14,400
Interior Excavation Shoring and Stabilization	1	EST	\$ 50,000	\$ 50,000
Transportation & Disposal of NH Soil/Fill	6432	TON	\$ 35	\$ 225,120
Groundwater Handling and Treatment	1	EST	\$ 25,000	\$ 25,000
Verification Sampling	40	EA	\$ 500	\$ 20,000
				\$ 428,840
<u>Site Restoration</u>				
Part 375 Compliant Backfill, Haul, Place & Compact	4030	CY	\$ 25	\$ 100,750
Concrete Slab restoration	100	CY	\$ 185	\$ 18,500
Building Masonry Restoration	1	EST	\$ 30,000	\$ 30,000
Cover System (asphalt and soil cover)	1	EST	\$ 250,000	\$ 250,000
Backfill-Topsoil Analytical Sampling	10	EA	\$ 500	\$ 5,000
				\$ 404,250
<u>Final Engineering Report/Site Management Plan</u>				\$ 30,000
Subtotal Capital Cost				\$ 1,120,890
Health and Safety (2%)				\$ 22,418
Engineering/Contingency (25%)				\$ 280,223
Total Capital Cost				\$ 1,423,530
Annual Operation Maintenance & Monitoring (OM&M):				
Annual Certification	1	Yr	\$ 2,500	\$ 2,500
Total Annual OM&M Cost				\$ 2,500
Capital Cost				\$ 1,424,000

TABLE 14

ALTERNATIVE 4 - UNRESTRICTED USE COST ESTIMATE

REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES / ALTERNATIVE ANALYSIS REPORT

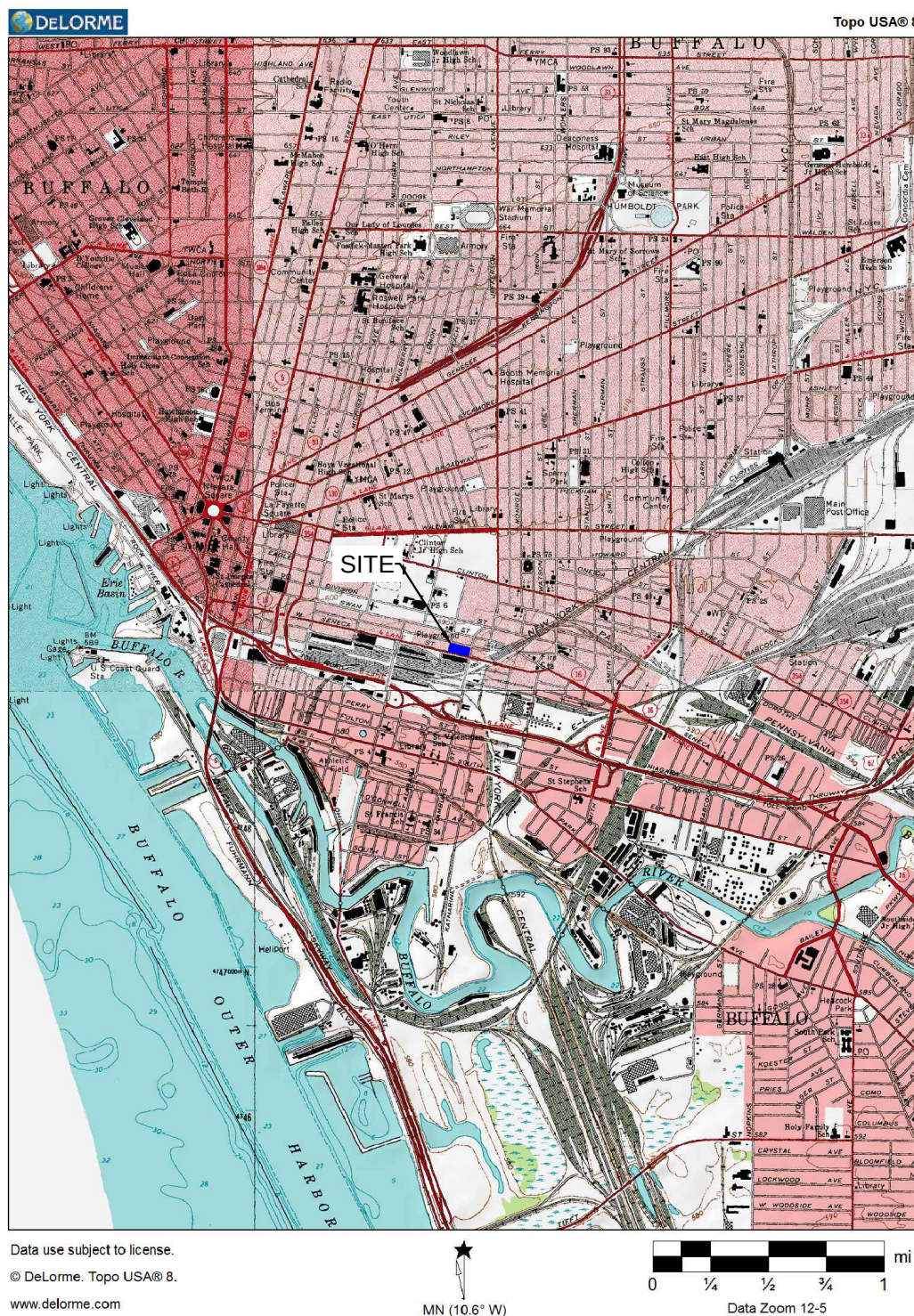
500 SENECA STREET SITE

BUFFALO, NEW YORK

Item	Quantity	Units	Unit Cost	Total Cost
<u>IRM Completed</u>				
Petroleum IRM Excavation and Disposal	1	LS	\$ 65,000	\$ 65,000
Loading Dock IRM Excavation and Disposal	1	LS	\$ 100,000	\$ 100,000
Verification Sampling	13	EA	\$ 600	\$ 7,800
ASD System	1	LS	\$ 30,000	\$ 30,000
In-Situ Chemical Feed System	1	LS	\$ 15,000	\$ 15,000
				\$ 217,800
<u>Additional Remedial Measures</u>				
Basement Remedial Cleaning	1	EST	\$ 15,000	\$ 15,000
Universal and Chemical Wastes	1	EST	\$ 25,000	\$ 25,000
				\$ 40,000
<u>Impacted Soil/Fill Removal</u>				
Exterior Soil/Fill Excavation	10200	TON	\$ 15	\$ 153,000
Interior Soil/Fill Excavation	960	TON	\$ 100	\$ 96,000
Interior Excavation Shoring and Stabilization	1	EST	\$ 100,000	\$ 100,000
Transportation & Disposal of NH Soil/Fill	11160	TON	\$ 35	\$ 390,600
Groundwater Handling and Treatment	1	EST	\$ 25,000	\$ 25,000
Verification Sampling	65	EA	\$ 500	\$ 32,500
				\$ 797,100
<u>Site Restoration</u>				
Part 375 Compliant Backfill, Haul, Place & Compact	6975	CY	\$ 25	\$ 174,375
Concrete Slab restoration	600	CY	\$ 185	\$ 111,000
Building Masonry Restoration	1	EST	\$ 30,000	\$ 30,000
Cover System (asphalt and soil cover)	1	EST	\$ 250,000	\$ 250,000
Backfill-Topsoil Analytical Sampling	10	EA	\$ 500	\$ 5,000
				\$ 570,375
<u>Final Engineering Report/Site Management Plan</u>				\$ 30,000
Subtotal Capital Cost				\$ 1,655,275
Health and Safety (2%)				\$ 33,106
Engineering/Contingency (25%)				\$ 413,819
Total Capital Cost				\$ 2,102,200
Capital Cost				\$ 2,102,000

FIGURES

FIGURE 1



SITE LOCATION AND VICINITY MAP

RI-IRM-AA REPORT

500 SENECA STREET SITE

BCP NO. C915273

BUFFALO, NEW YORK

PREPARED FOR

500 SENECA STREET, LLC



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BUFFALO, NY 14218
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PROJECT NO.: 0270-012-001

DATE: APRIL 2015

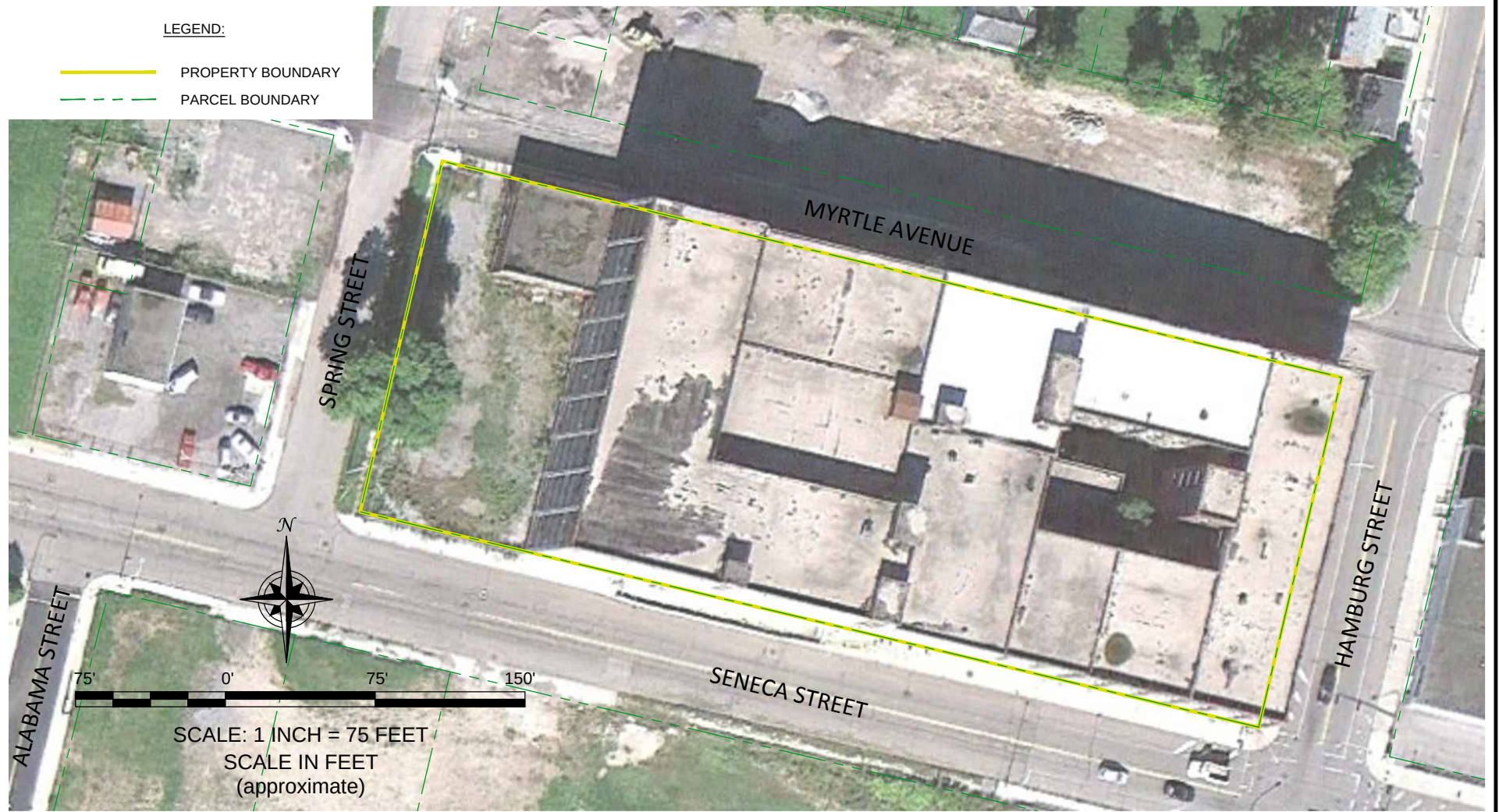
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LEGEND:

- PROPERTY BOUNDARY
- - - - PARCEL BOUNDARY



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SITE PLAN (AERIAL)

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500 SENECA STREET SITE
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FIGURE 2

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HISTORIC SAMPLE LOCATIONS

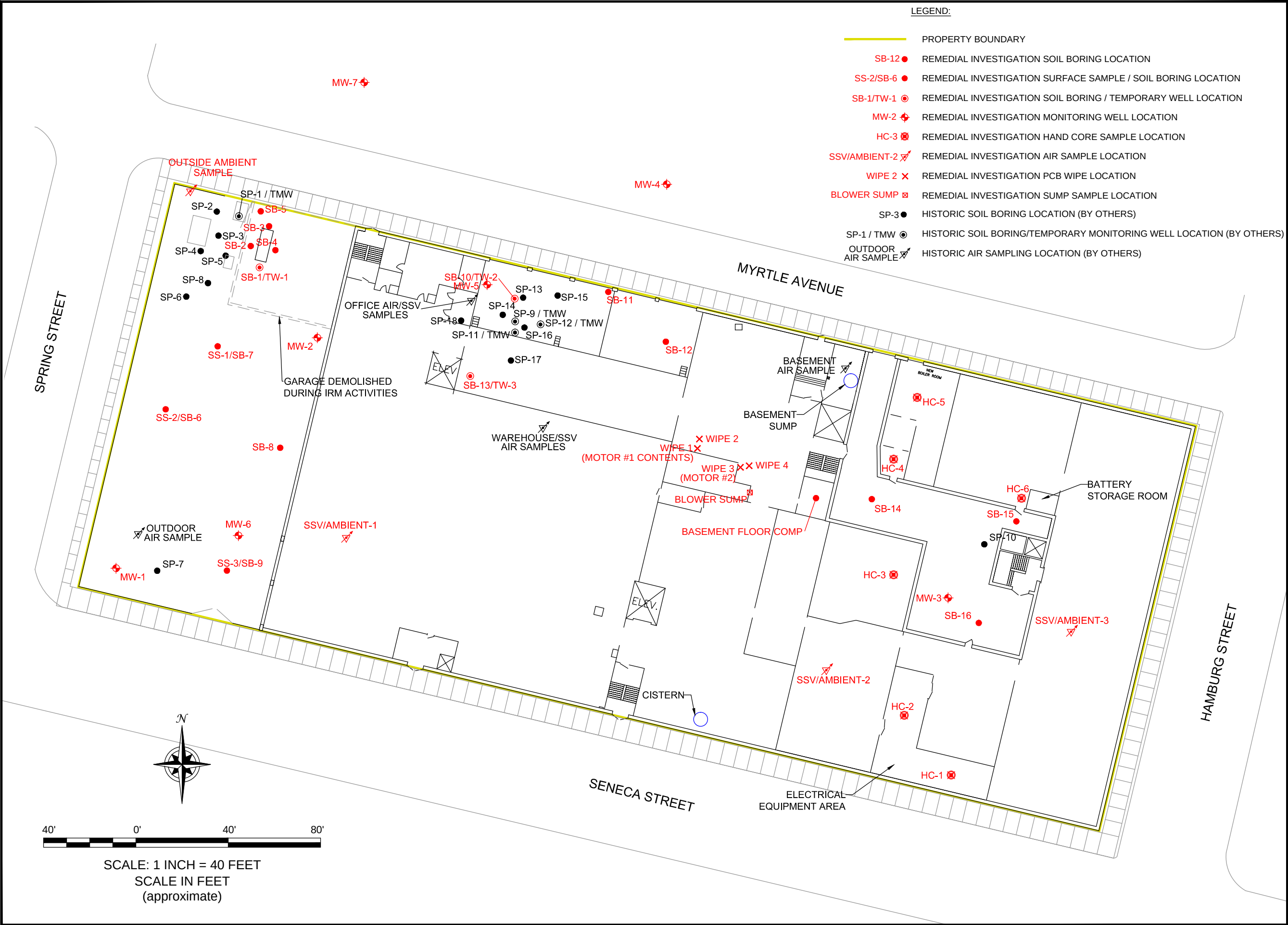
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FIGURE 3

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F:\CAD\Benchmark\500 Seneca Street, LLC\RI-IRM-AA Report\Figure 4: Remedial Investigation and Historic Sample Locations.dwg

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REMEDIAL INVESTIGATION AND HISTORIC SAMPLE LOCATIONS

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500 SENECA STREET SITE
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FIGURE 4

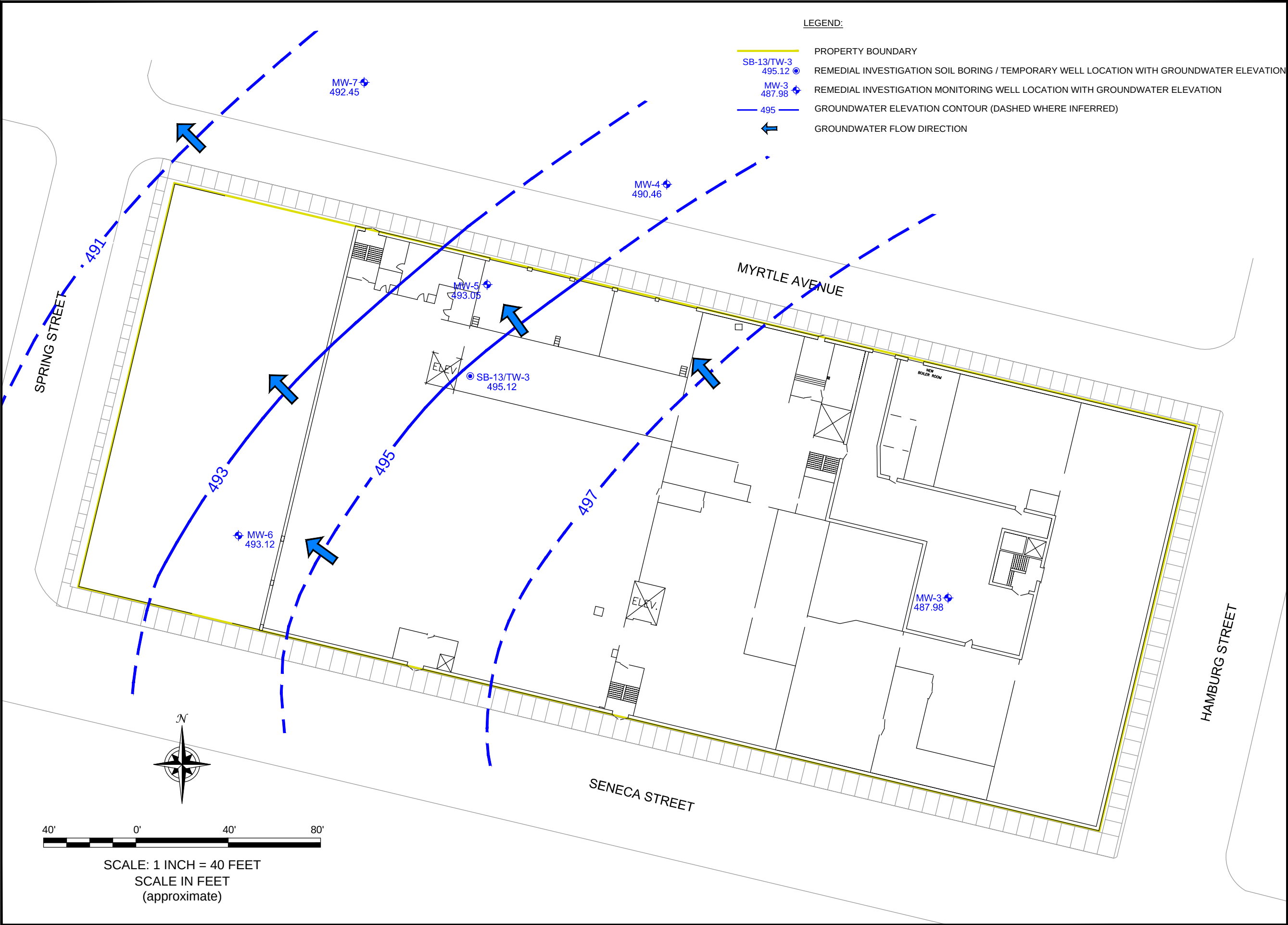
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F:\CAD\Benchmark\500 Seneca Street, LLC\RI-IRM-AA Report\Figure 5; Groundwater Isopotential Map (April 2015).dwg

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GROUNDWATER ISOPOTENTIAL MAP (APRIL 2015)

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FIGURE 5

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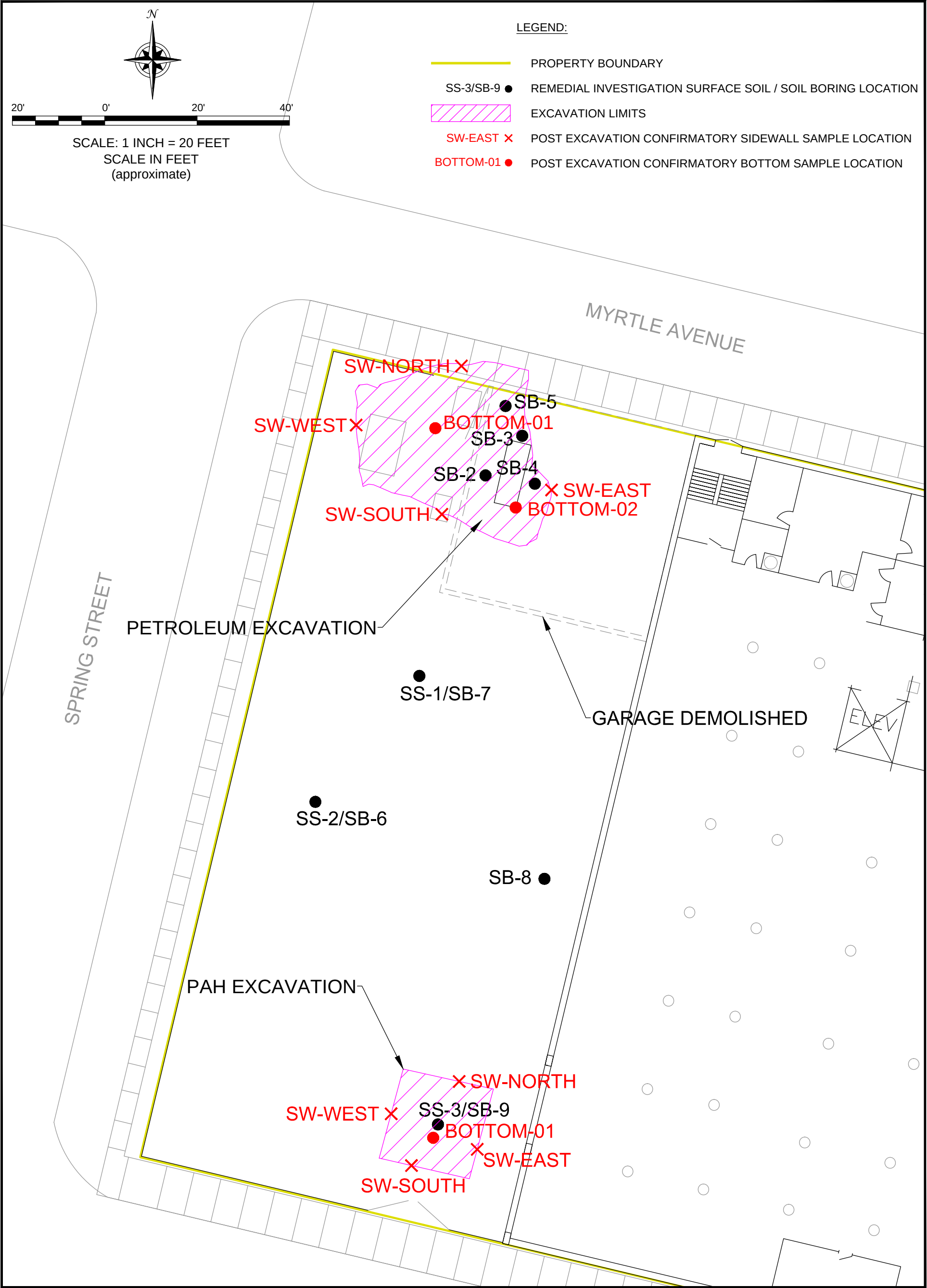
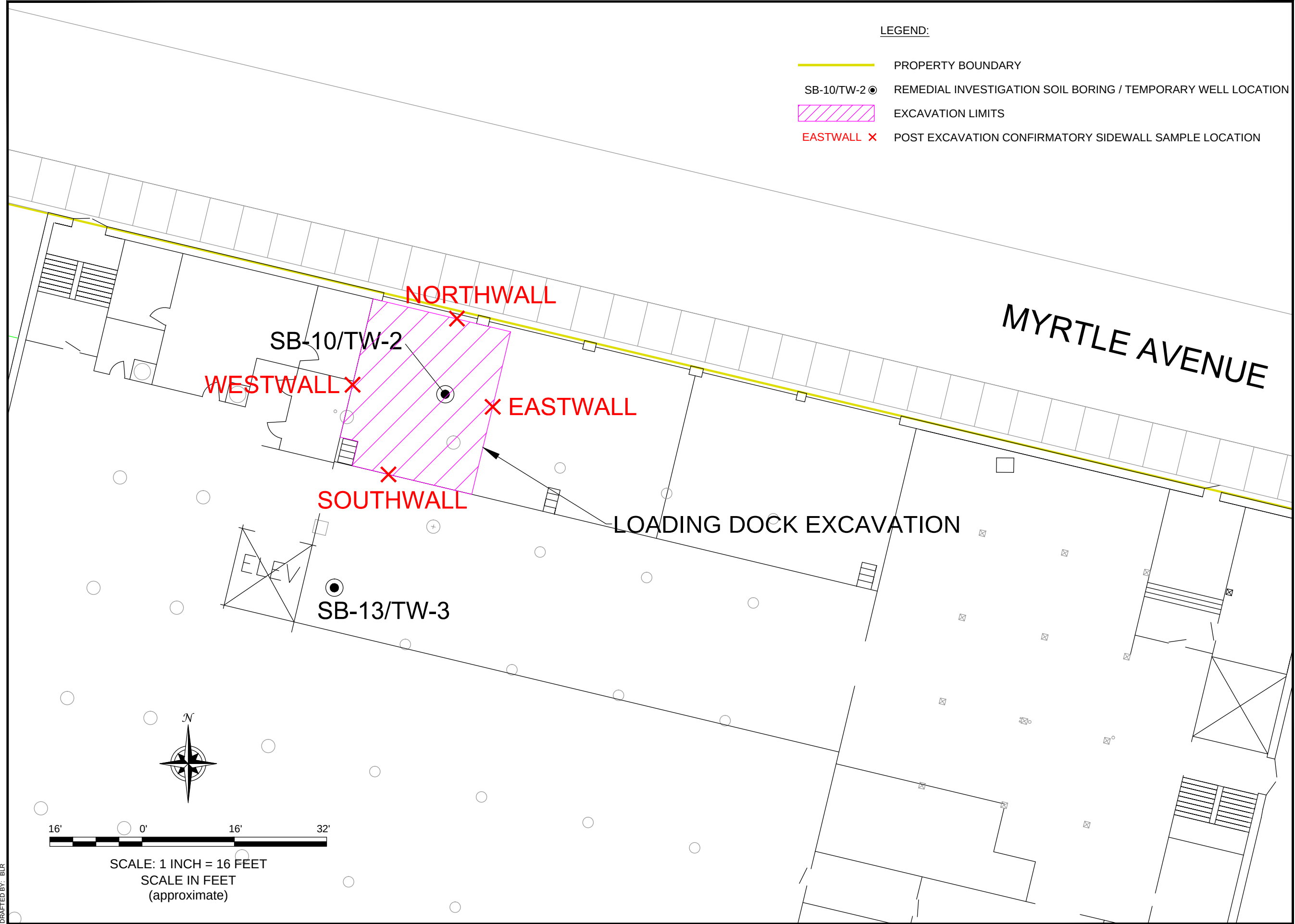


FIGURE 6	PETROLEUM AND PAH IRM EXCAVATION AREAS	 BENCHMARK ENVIRONMENTAL ENGINEERING SCIENCE, PLLC
	RI-IRM-AA REPORT 500 SENECA STREET SITE BCP NO. C915273 BUFFALO, NEW YORK PREPARED FOR 500 SENECA STREET, LLC	

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F:\CAD\Benchmark\500 Seneca Street, LLC\RI-IRM-AA Report\Figure 7: Loading Dock Excavation Area.dwg

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LOADING DOCK IRM EXCAVATION AREA

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FIGURE 7

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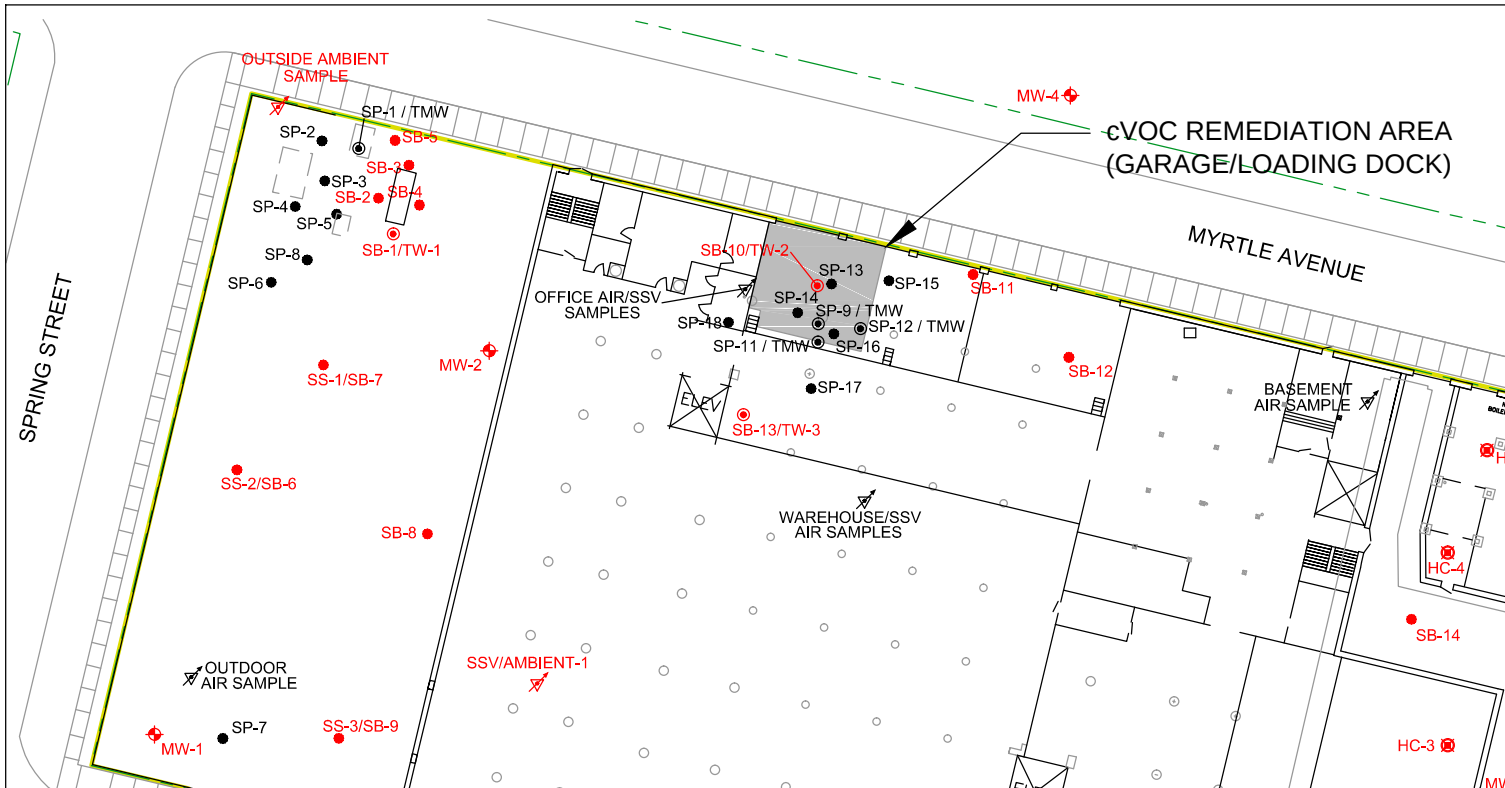
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F:\CAD\Benchmark\500 Seneca Street, LLC\RI-IRM-AA Report\Figure 8: In-Situ Treatment System Design and Layout.dwg

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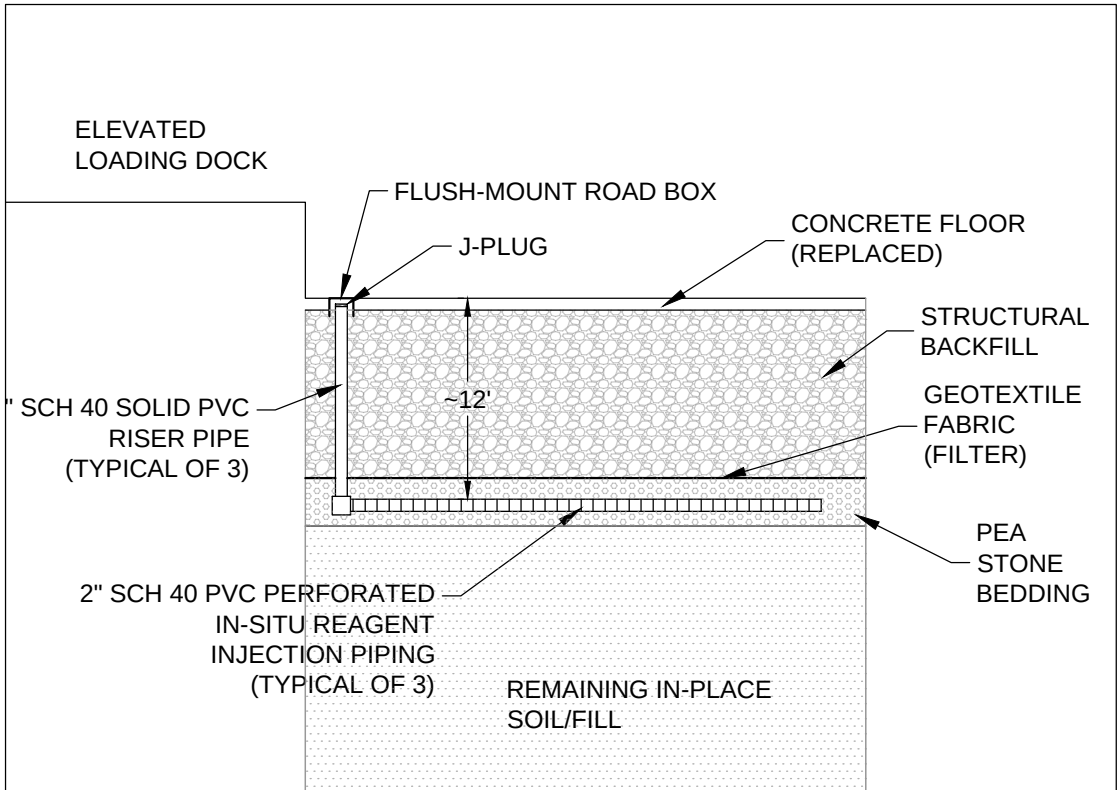
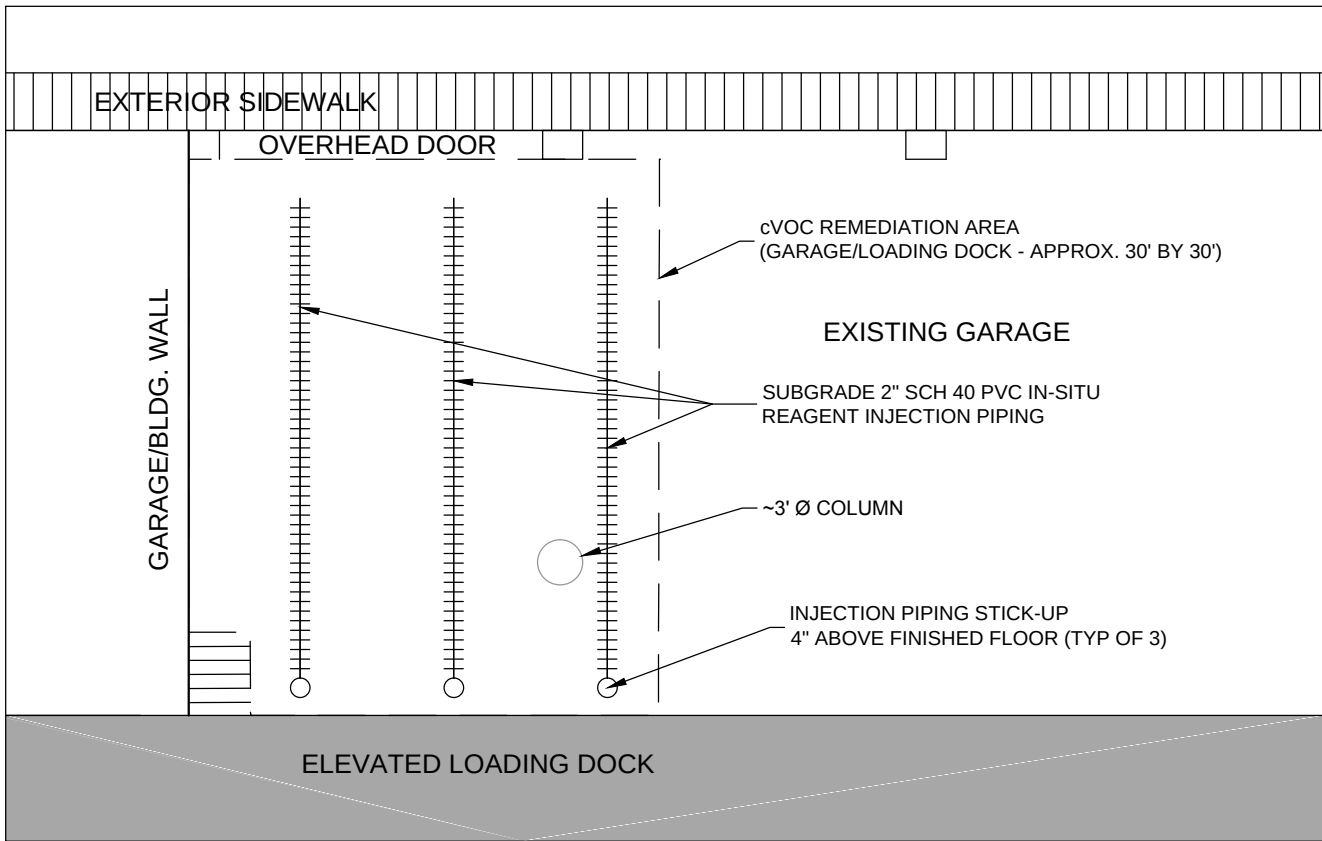
SITE PLAN: SCALE 1:50



- LEGEND:
- PROPERTY BOUNDARY
 - SB-12 REMEDIAL INVESTIGATION SOIL BORING LOCATION
 - SS-2/SB-6 REMEDIAL INVESTIGATION SURFACE SAMPLE / SOIL BORING LOCATION
 - SB-1/TW-1 REMEDIAL INVESTIGATION SOIL BORING / TEMPORARY WELL LOCATION
 - MW-2 REMEDIAL INVESTIGATION MONITORING WELL LOCATION
 - HC-3 REMEDIAL INVESTIGATION HAND CORE SAMPLE LOCATION
 - SSV/AMBIENT-2 REMEDIAL INVESTIGATION AIR SAMPLE LOCATION
 - SP-3 HISTORIC SOIL BORING LOCATION (BY OTHERS)
 - SP-1 / TMW HISTORIC SOIL BORING/TEMPORARY MONITORING WELL LOCATION (BY OTHERS)
 - OUTDOOR AIR SAMPLE HISTORIC AIR SAMPLING LOCATION (BY OTHERS)



PLAN VIEW: SCALE 1:10



CROSS-SECTION

NTS

IN-SITU TREATMENT SYSTEM DESIGN AND LAYOUT

RI-IRM-AA REPORT
500 SENECA STREET SITE
BCP NO. C915273
BUFFALO, NEW YORK
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FIGURE 8

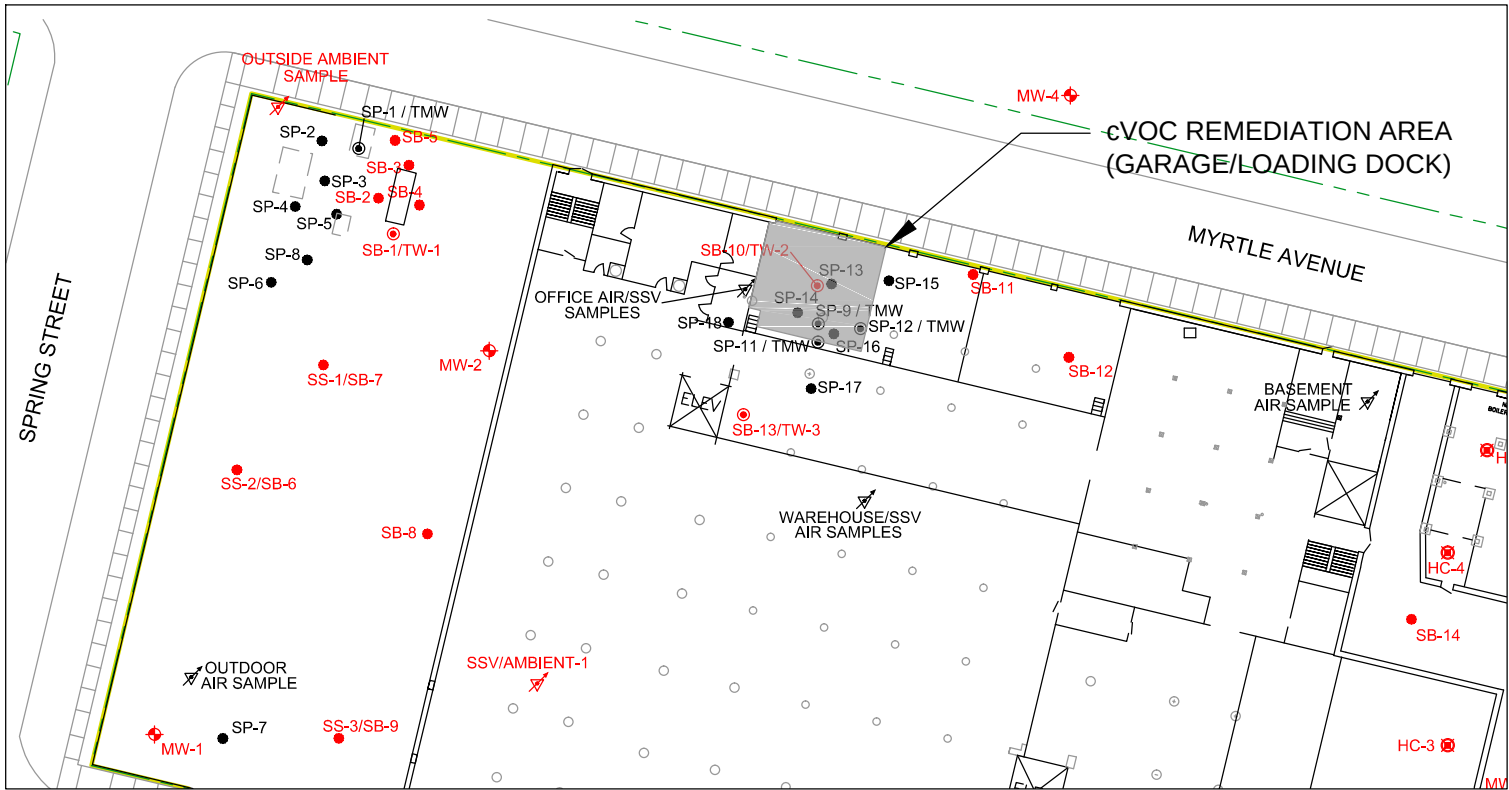


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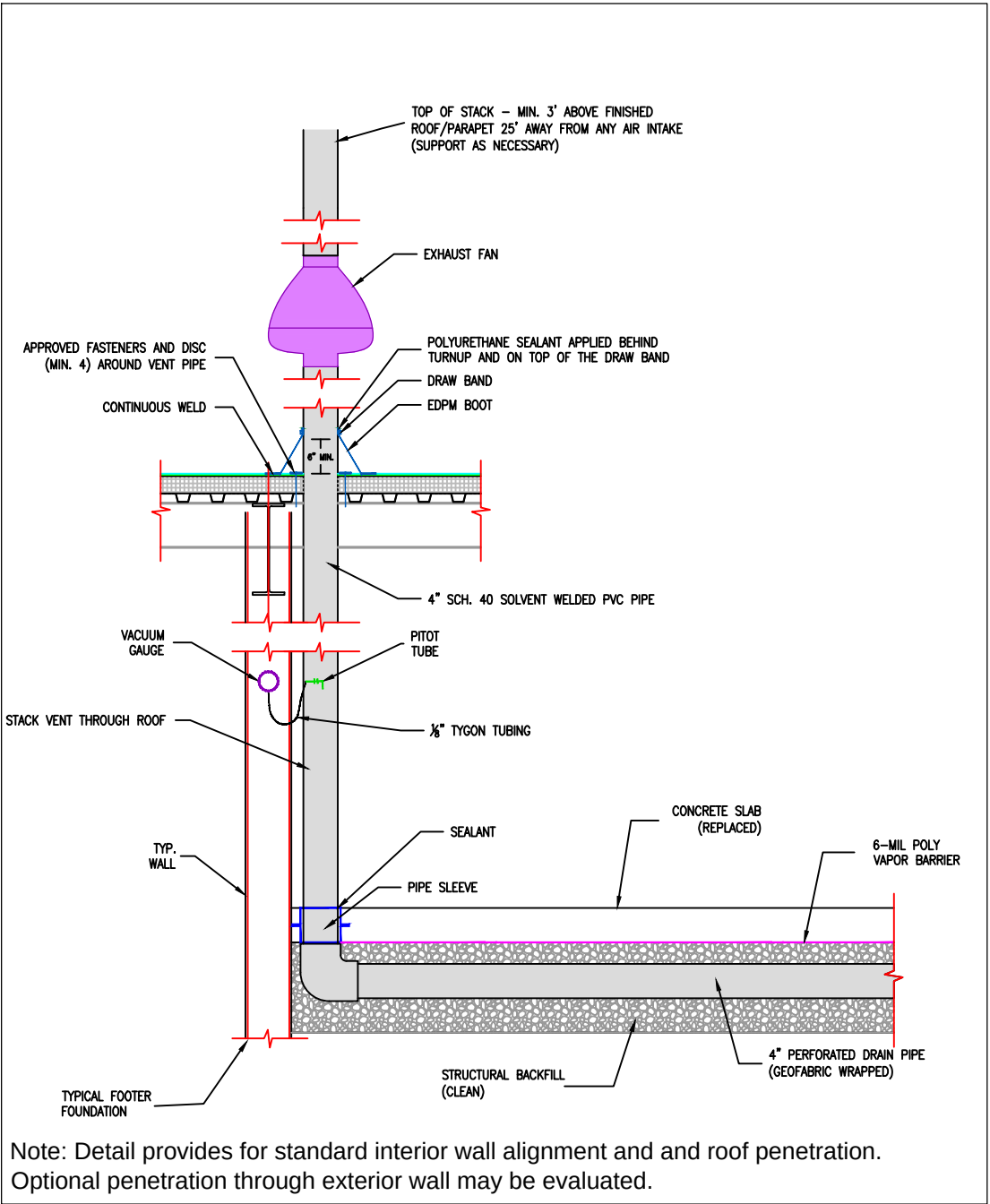
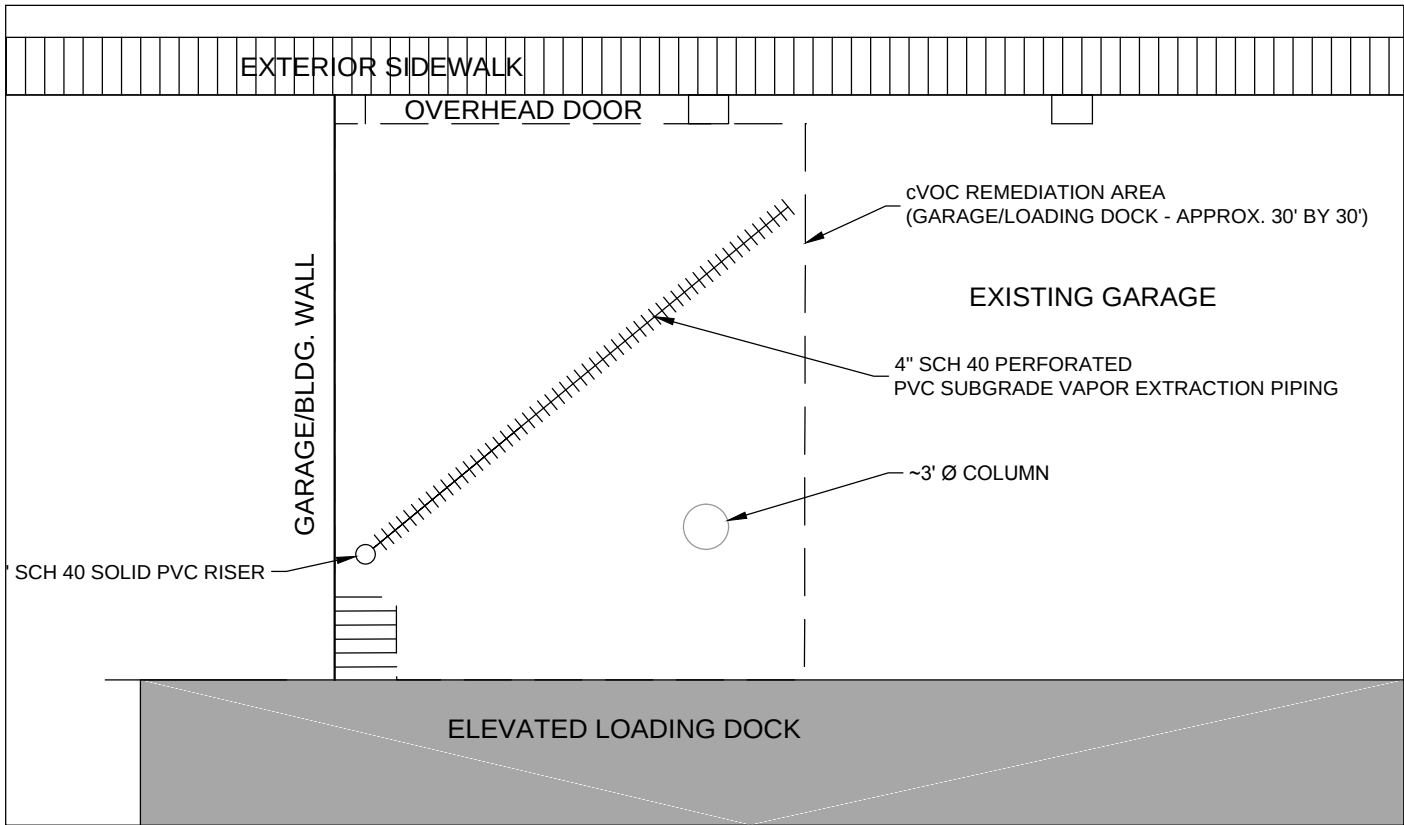
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F:\CAD\Benchmark\500 Seneca Street, LLC\RI-RM-AA Report\Figure 9, ASD System Design and Layout.dwg

SITE PLAN: SCALE 1:50



PLAN VIEW: SCALE 1:10



Note: Detail provides for standard interior wall alignment and and roof penetration. Optional penetration through exterior wall may be evaluated.

SYSTEM DETAIL
NTS

SUBSLAB DEPRESSURIZATION SYSTEM DESIGN AND LAYOUT

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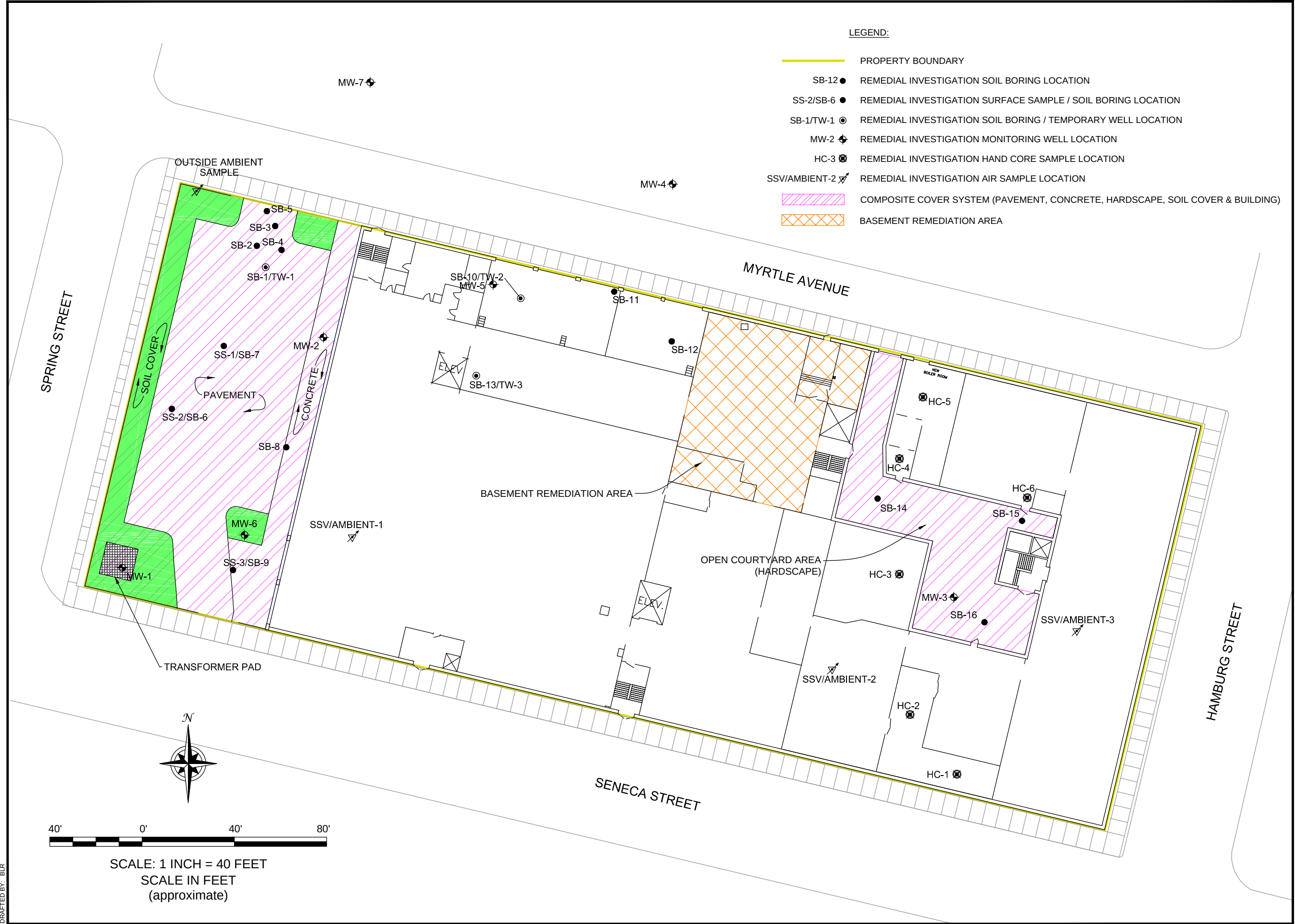
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FIGURE 9

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F:\CAD\Benchmark\500 Seneca Street, LLC\RI-IRM-AA Report\Figure 10; Option 2- RRSCO Track 4 Cleanup.dwg

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TRACK 4 RRSCO CLEANUP ALTERNATIVE

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500 SENECA STREET SITE
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FIGURE 10

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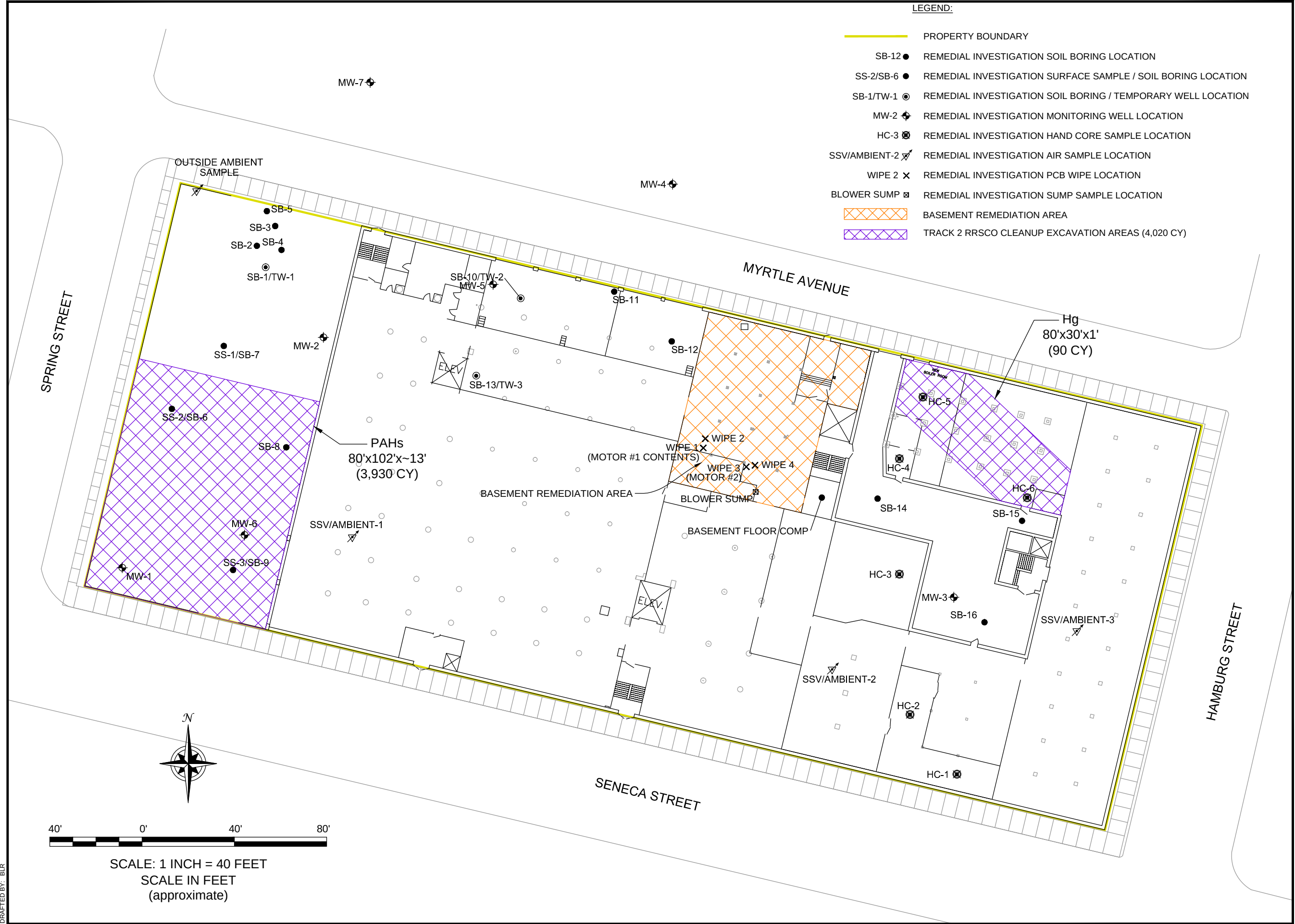
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F:\CAD\Benchmark\500 Seneca Street, LLC\RI-IRM-AA Report\Figure 11; Option 3- RRSCO Track 2 Cleanup.dwg

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TRACK 2 RRSCO CLEANUP ALTERNATIVE

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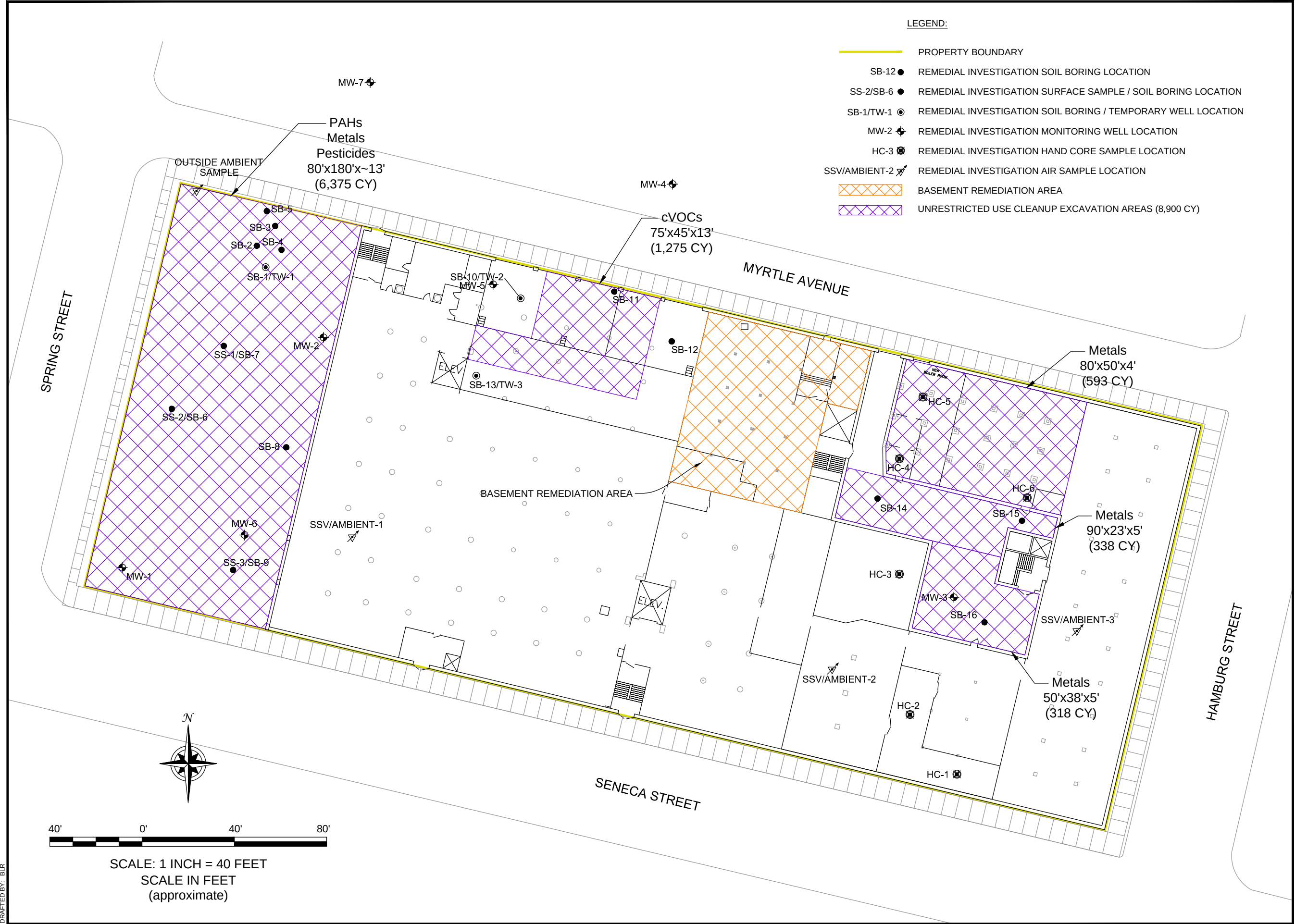
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FIGURE 11

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F:\CAD\Benchmark\500 Seneca Street, LLC\RI-IRM-AA Report\Figure 12: Option 4 - RRSCO Unrestricted SCO Cleanup.dwg

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UNRESTRICTED USE SCO CLEANUP ALTERNATIVE

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JOB NO.: 0270-012-001

FIGURE 12

DISCLAIMER: PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC.

APPENDIX A

PROJECT PHOTOLOG

SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: Installation of RI groundwater monitoring well (MW-2) - Looking east

Photo 2: Installation of RI off-site groundwater monitoring well (MW-4) - Looking west

Photo 3: Installation of RI groundwater monitoring well (MW-3 – in courtyard) - Looking east

Photo 4: Example of finished well casing (MW-3)

SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 5: RI soil boring investigation (SB-15) - Looking east

Photo 6: RI soil boring location (SB-1 – former garage building)

Photo 7: Example of core drill (prior to SB advancement in former garage building).

Photo 8: Example of hand core subslab soil sample location (HC-4) in boiler-mechanical room off courtyard

SITE PHOTOGRAPHS

Photo 9:

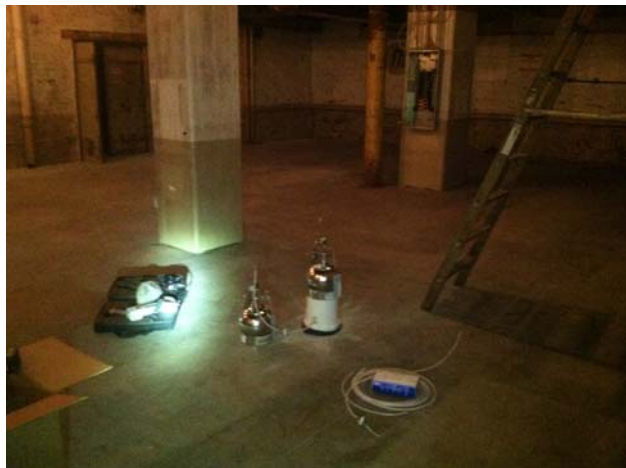


Photo 10:



Photo 11:



Photo 12:



Photo 9: Soil Vapor Intrusion sampling point (SSV-1)

Photo 10: Basement investigation – Motor #2 Housing PCB wipe sample

Photo 11: Basement Investigation - Post-PCB wipe sampling (Motor #2 housing)

Photo 12: Basement Investigation – Motor #2 floor location

SITE PHOTOGRAPHS

Photo 13:



Photo 14:



Photo 15:



Photo 16:



Photo 13: Petroleum IRM – slab and footer removal post-above grade demolition

Photo 14: Petroleum IRM – slab and footer removal post-above grade demolition (northern property boundary along Myrtle Ave.)

Photo 15: Residual petroleum impacted soil/fill

Photo 16: Direct loading of petroleum impacted soil/fill (petroleum IRM)

SITE PHOTOGRAPHS

Photo 17:



Photo 18:



Photo 19:



Photo 20:



Photo 17: Backfilling of petroleum IRM excavation

Photo 18: Backfilling of petroleum IRM excavation.

Photo 19: IRM excavation of the SS-3 area – Looking south.

Photo 20: IRM excavation of the SS-3 area – Looking south

SITE PHOTOGRAPHS

Photo 21:



Photo22:



Photo 23:



Photo 24:



Photo 21: Loading Dock IRM excavation – removal of concrete slab in western most bay.

Photo 22: Loading Dock IRM – assessment of subgrade structural building piers.

Photo 23: Loading Dock IRM excavation (note removed stormwater conveyance pipe from roof leaders)

Photo 24: Loading Dock IRM excavation (capping of former roof stormwater conveyance pipe)

SITE PHOTOGRAPHS

Photo 25:



Photo 26:



Photo 27:



Photo 28:



Photo 25: Loading Dock IRM – installation of in-Situ groundwater treatment chemical feed piping at base of excavation (approx. 12.5-13 fbgs).

Photo 26: Installation of steel casing to allow for future installation of MW-5.

Photo 27: Loading Dock IRM excavation – replacement of stormwater conveyance piping for roof drains

Photo 28: Installation of ASD system subslab extraction pipe.

SITE PHOTOGRAPHS

Photo 29:



Photo 30:



Photo 31:



Photo 32:



Photo 29: Loading Dock IRM excavation after completion of backfilling with NYSDEC approved stone.

Photo 30: West parking lot construction. Placement of demarcation layer prior to utility corridor excavation.

Photo 31: West parking lot – utility corridor – Looking northeast

Photo 32: Placement of demarcation layer along building in area planned for vegetative cover – Looking south

SITE PHOTOGRAPHS

Photo 33:



Photo 34:



Photo 35:



Photo 36:



Photo 33: Excavation and direct loading of structurally unsuitable subgrade material. Soil was disposed at WM Chaffee landfill.

Photo 34: Placement of structural stone backfill in the west parking lot area.

Photo 35: Placement of parking lot geofabric and subbase stone for asphalt paving.

Photo 36: West parking lot.

APPENDIX B

PREVIOUS INVESTIGATION LABORATORY REPORTS

(PROVIDED ELECTRONICALLY ON CD)



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project No.: **21.0056365.00**
Work Order No.: **0711-00106**
Date Received: **11/13/2007**
Date Reported: **11/20/2007**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
11/12/2007	Solid	0711-00106 001	SP - 1 2-4ft.
11/12/2007	Solid	0711-00106 002	SP - 4 3-5ft.
11/12/2007	Solid	0711-00106 003	SP - 5 3-5ft.
11/12/2007	Solid	0711-00106 004	SP - 7 1-4ft.
11/12/2007	Solid	0711-00106 005	SP - 9 6-8ft.
11/12/2007	Solid	0711-00106 006	SP - 10 4-6ft.



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00106**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 11/13/07 via __GZA courier, __x_UPS, __FEDEX, or __hand delivered. The temperature of the __temperature blank/ __x_cooler air, was 4.7 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference.

2. EPA Method 8260 - VOCs

The percent recoveries for the surrogates in the diluted runs are as follows:

SP-9 6-8ft.: 1,2- Dichloroethane-D4 - 104%, Toluene-D8 - 124%, 4-Bromofluorobenzene - 97.2%

Attach QC 8260 11/15/07 S - Solid
Attach QC 8260 11/17/07 S - Solid

3. EPA Method 8082 - PCBs

Attach QC 8082 11/14/07 - Solid

4. EPA Method 8270 - PAHs

Attach QC 8270 11/14/07 - Solid



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ANALYTICAL REPORT

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Data Authorized By: _____

NELAC certification, as indicated by the NELAC Lab ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:

% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
CF = Calculation Factor
DO = Diluted Out

Method Key:

Method 8260: The current version of the method is 8260B.
Method 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
Method 6010: The current version of the method is 6010B.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

Soil data is reported on a dry weight basis unless otherwise specified.
Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.



ANALYTICAL REPORT

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Project No.: **21.0056365.00**

Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00106**

Sample ID: **SP - 1 2-4ft.**
Sample Date: **11/12/2007**

Sample No.: **001**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		91.7	%	TAJ	11/15/2007
VOLATILE ORGANICS	EPA 8260			MQS	11/15/2007
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chloromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromomethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Diethylether	EPA 8260	<50	ug/kg	MQS	11/15/2007
Acetone	EPA 8260	<500	ug/kg	MQS	11/15/2007
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dichloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	11/15/2007
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Butanone	EPA 8260	<500	ug/kg	MQS	11/15/2007
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
cis-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Chloroform	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Tetrahydrofuran	EPA 8260	<100	ug/kg	MQS	11/15/2007
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Benzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Trichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dibromomethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
4-Methyl-2-Pentanone	EPA 8260	<100	ug/kg	MQS	11/15/2007
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Toluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
trans-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Hexanone	EPA 8260	<100	ug/kg	MQS	11/15/2007
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007



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Work Order No.: **0711-00106**

Sample ID: **SP - 1 2-4ft.**
Sample Date: **11/12/2007**

Sample No.: **001**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
m&p-Xylene	EPA 8260	54	ug/kg	MQS	11/15/2007
o-Xylene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Styrene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromoform	EPA 8260	<100	ug/kg	MQS	11/15/2007
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,4-Trimethylbenzene	EPA 8260	52	ug/kg	MQS	11/15/2007
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
p-Isopropyltoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	11/15/2007
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Naphthalene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	101	% R	MQS	11/15/2007
***Toluene-D8	EPA 8260	102	% R	MQS	11/15/2007
***4-Bromofluorobenzene	EPA 8260	92.3	% R	MQS	11/15/2007
Preparation	EPA 5035	1.0	CF	MQS	11/15/2007
PAHS BY GCMS	EPA 8270			CMG	11/17/2007



ANALYTICAL REPORT

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Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00106**

Sample ID: **SP - 1 2-4ft.**
Sample Date: **11/12/2007**

Sample No.: **001**

Test Performed	Method	Results	Units	Tech	Analysis Date
Naphthalene	EPA 8270	<330	ug/kg	CMG	11/17/2007
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Acenaphthene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Fluorene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Phenanthrene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Anthracene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Pyrene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Chrysene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Surrogates:	EPA 8270				
***Nitrobenzene-D5	EPA 8270	56.6	% R	CMG	11/17/2007
***2-Fluorobiphenyl	EPA 8270	51.7	% R	CMG	11/17/2007
***P-Terphenyl-D14	EPA 8270	74.2	% R	CMG	11/17/2007
Extraction	EPA 3545	1.0	DF	TN	11/14/2007



ANALYTICAL REPORT

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Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00106**

Sample ID: **SP - 4 3-5ft.**
Sample Date: **11/12/2007**

Sample No.: **002**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		72.5	%	TAJ	11/15/2007
VOLATILE ORGANICS	EPA 8260			MQS	11/15/2007
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chloromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromomethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Diethylether	EPA 8260	<50	ug/kg	MQS	11/15/2007
Acetone	EPA 8260	<500	ug/kg	MQS	11/15/2007
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dichloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	11/15/2007
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Butanone	EPA 8260	<500	ug/kg	MQS	11/15/2007
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
cis-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Chloroform	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Tetrahydrofuran	EPA 8260	<100	ug/kg	MQS	11/15/2007
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Benzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Trichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dibromomethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
4-Methyl-2-Pentanone	EPA 8260	<100	ug/kg	MQS	11/15/2007
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Toluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
trans-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Hexanone	EPA 8260	<100	ug/kg	MQS	11/15/2007
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007



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Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00106**

Sample ID: **SP - 4 3-5ft.**
Sample Date: **11/12/2007**

Sample No.: **002**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
m&p-Xylene	EPA 8260	<50	ug/kg	MQS	11/15/2007
o-Xylene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Styrene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromoform	EPA 8260	<100	ug/kg	MQS	11/15/2007
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
p-Isopropyltoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	11/15/2007
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Naphthalene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	94.8	% R	MQS	11/15/2007
***Toluene-D8	EPA 8260	93.0	% R	MQS	11/15/2007
***4-Bromofluorobenzene	EPA 8260	93.9	% R	MQS	11/15/2007
Preparation	EPA 5035	1.0	CF	MQS	11/15/2007
PAHS BY GCMS	EPA 8270			CMG	11/17/2007



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GZA GeoEnvironmental of NY
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Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00106**

Sample ID: **SP - 4 3-5ft.**
Sample Date: **11/12/2007**

Sample No.: **002**

Test Performed	Method	Results	Units	Tech	Analysis Date
Naphthalene	EPA 8270	<330	ug/kg	CMG	11/17/2007
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Acenaphthene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Fluorene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Phenanthrene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Anthracene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Pyrene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Chrysene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	11/17/2007
Surrogates:	EPA 8270				
***Nitrobenzene-D5	EPA 8270	59.1	% R	CMG	11/17/2007
***2-Fluorobiphenyl	EPA 8270	54.2	% R	CMG	11/17/2007
***P-Terphenyl-D14	EPA 8270	72.9	% R	CMG	11/17/2007
Extraction	EPA 3545	1.0	DF	TN	11/14/2007



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Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00106**

Sample ID: **SP - 5 3-5ft.**

Sample No.: **003**

Sample Date: **11/12/2007**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		68.4	%	TAJ	11/15/2007
VOLATILE ORGANICS	EPA 8260			MQS	11/15/2007
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chloromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromomethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Diethylether	EPA 8260	<50	ug/kg	MQS	11/15/2007
Acetone	EPA 8260	<500	ug/kg	MQS	11/15/2007
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dichloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	11/15/2007
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Butanone	EPA 8260	<500	ug/kg	MQS	11/15/2007
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
cis-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Chloroform	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Tetrahydrofuran	EPA 8260	<100	ug/kg	MQS	11/15/2007
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Benzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Trichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dibromomethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
4-Methyl-2-Pentanone	EPA 8260	<100	ug/kg	MQS	11/15/2007
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Toluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
trans-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Hexanone	EPA 8260	<100	ug/kg	MQS	11/15/2007
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007



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Work Order No.: **0711-00106**

Sample ID: **SP - 5 3-5ft.**
Sample Date: **11/12/2007**

Sample No.: **003**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
m&p-Xylene	EPA 8260	<50	ug/kg	MQS	11/15/2007
o-Xylene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Styrene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromoform	EPA 8260	<100	ug/kg	MQS	11/15/2007
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
p-Isopropyltoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	11/15/2007
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Naphthalene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	97.2	% R	MQS	11/15/2007
***Toluene-D8	EPA 8260	100	% R	MQS	11/15/2007
***4-Bromofluorobenzene	EPA 8260	94.4	% R	MQS	11/15/2007
Preparation	EPA 5035	1.0	CF	MQS	11/15/2007
PAHS BY GCMS	EPA 8270			CMG	11/19/2007



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Work Order No.: **0711-00106**

Sample ID: **SP - 5 3-5ft.**
Sample Date: **11/12/2007**

Sample No.: **003**

Test Performed	Method	Results	Units	Tech	Analysis Date
Naphthalene	EPA 8270	<330	ug/kg	CMG	11/19/2007
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Acenaphthene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Fluorene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Phenanthrene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Anthracene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Pyrene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Chrysene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	11/19/2007
Surrogates:	EPA 8270				
***Nitrobenzene-D5	EPA 8270	73.4	% R	CMG	11/19/2007
***2-Fluorobiphenyl	EPA 8270	63.6	% R	CMG	11/19/2007
***P-Terphenyl-D14	EPA 8270	88.0	% R	CMG	11/19/2007
Extraction	EPA 3545	1.0	DF	TN	11/14/2007



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Work Order No.: **0711-00106**

Sample ID: **SP - 7 1-4ft.**

Sample No.: **004**

Sample Date: **11/12/2007**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		79.6	%	TAJ	11/15/2007
POLYCHLORINATED BIPHENYLS	EPA 8082			TAJ	11/17/2007
Aroclor 1268	EPA 8082	<100	ug/kg	TAJ	11/17/2007
Aroclor 1262	EPA 8082	<100	ug/kg	TAJ	11/17/2007
Aroclor 1260	EPA 8082	<100	ug/kg	TAJ	11/17/2007
Aroclor 1254	EPA 8082	<100	ug/kg	TAJ	11/17/2007
Aroclor 1248	EPA 8082	<100	ug/kg	TAJ	11/17/2007
Aroclor 1242/1016	EPA 8082	<100	ug/kg	TAJ	11/17/2007
Aroclor 1232	EPA 8082	<100	ug/kg	TAJ	11/17/2007
Aroclor 1221	EPA 8082	<100	ug/kg	TAJ	11/17/2007
Surrogates:	EPA 8082				
***Tetrachloro-m-xylene	EPA 8082	82.7	% R	TAJ	11/17/2007
***Tetrachloro-m-xylene	EPA 8082	82.5	% R	TAJ	11/17/2007
***Decachlorobiphenyl	EPA 8082	96.7	% R	TAJ	11/17/2007
***Decachlorobiphenyl	EPA 8082	98.4	% R	TAJ	11/17/2007
Extraction	EPA 3541	1.0	DF	TN	11/14/2007



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Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00106**

Sample ID: **SP - 9 6-8ft.**
Sample Date: **11/12/2007**

Sample No.: **005**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		79.9	%	TAJ	11/15/2007
VOLATILE ORGANICS	EPA 8260			MQS	11/15/2007
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chloromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromomethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Diethylether	EPA 8260	<50	ug/kg	MQS	11/15/2007
Acetone	EPA 8260	<500	ug/kg	MQS	11/15/2007
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dichloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	11/15/2007
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Butanone	EPA 8260	<500	ug/kg	MQS	11/15/2007
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
cis-1,2-Dichloroethene	EPA 8260	1000	ug/kg	MQS	11/15/2007
Chloroform	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Tetrahydrofuran	EPA 8260	<100	ug/kg	MQS	11/15/2007
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Benzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Trichloroethene	EPA 8260	6000	ug/kg	MQS	11/15/2007
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dibromomethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
4-Methyl-2-Pentanone	EPA 8260	<100	ug/kg	MQS	11/15/2007
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Toluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
trans-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Hexanone	EPA 8260	<100	ug/kg	MQS	11/15/2007
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007



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Work Order No.: **0711-00106**

Sample ID: **SP - 9 6-8ft.**
Sample Date: **11/12/2007**

Sample No.: **005**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	270000	ug/kg	MQS	11/17/2007
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
m&p-Xylene	EPA 8260	<50	ug/kg	MQS	11/15/2007
o-Xylene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Styrene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromoform	EPA 8260	<100	ug/kg	MQS	11/15/2007
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
p-Isopropyltoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	11/15/2007
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Naphthalene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	106	% R	MQS	11/15/2007
***Toluene-D8	EPA 8260	118	% R	MQS	11/15/2007
***4-Bromofluorobenzene	EPA 8260	98.3	% R	MQS	11/15/2007
Preparation	EPA 5035	10	CF	MQS	11/15/2007
PAHS BY GCMS	EPA 8270			CMG	11/18/2007



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Sample ID: **SP - 9 6-8ft.**

Sample No.: **005**

Sample Date: **11/12/2007**

Test Performed	Method	Results	Units	Tech	Analysis Date
Naphthalene	EPA 8270	<330	ug/kg	CMG	11/18/2007
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Acenaphthene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Fluorene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Phenanthrene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Anthracene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Pyrene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Chrysene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Surrogates:	EPA 8270				
***Nitrobenzene-D5	EPA 8270	52.9	% R	CMG	11/18/2007
***2-Fluorobiphenyl	EPA 8270	49.3	% R	CMG	11/18/2007
***P-Terphenyl-D14	EPA 8270	75.0	% R	CMG	11/18/2007
Extraction	EPA 3545	1.0	DF	TN	11/14/2007



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00106**

Sample ID: **SP - 10 4-6ft.**

Sample No.: **006**

Sample Date: **11/12/2007**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		82.5	%	TAJ	11/15/2007
VOLATILE ORGANICS	EPA 8260			MQS	11/15/2007
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chloromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromomethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	11/15/2007
Diethylether	EPA 8260	<50	ug/kg	MQS	11/15/2007
Acetone	EPA 8260	<500	ug/kg	MQS	11/15/2007
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dichloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	11/15/2007
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Butanone	EPA 8260	<500	ug/kg	MQS	11/15/2007
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
cis-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Chloroform	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Tetrahydrofuran	EPA 8260	<100	ug/kg	MQS	11/15/2007
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Benzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Trichloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dibromomethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
4-Methyl-2-Pentanone	EPA 8260	<100	ug/kg	MQS	11/15/2007
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Toluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
trans-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
2-Hexanone	EPA 8260	<100	ug/kg	MQS	11/15/2007
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007



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Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00106**

Sample ID: **SP - 10 4-ft.**
Sample Date: **11/12/2007**

Sample No.: **006**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	11/15/2007
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
m&p-Xylene	EPA 8260	<50	ug/kg	MQS	11/15/2007
o-Xylene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Styrene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromoform	EPA 8260	<100	ug/kg	MQS	11/15/2007
Isopropylbenzene	EPA 8260	65	ug/kg	MQS	11/15/2007
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	11/15/2007
Bromobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
n-Propylbenzene	EPA 8260	110	ug/kg	MQS	11/15/2007
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,3,5-Trimethylbenzene	EPA 8260	83	ug/kg	MQS	11/15/2007
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	11/15/2007
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2,4-Trimethylbenzene	EPA 8260	220	ug/kg	MQS	11/15/2007
sec-Butylbenzene	EPA 8260	61	ug/kg	MQS	11/15/2007
p-Isopropyltoluene	EPA 8260	77	ug/kg	MQS	11/15/2007
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
n-Butylbenzene	EPA 8260	88	ug/kg	MQS	11/15/2007
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	11/15/2007
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Naphthalene	EPA 8260	82	ug/kg	MQS	11/15/2007
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	11/15/2007
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	95.5	% R	MQS	11/15/2007
***Toluene-D8	EPA 8260	105	% R	MQS	11/15/2007
***4-Bromofluorobenzene	EPA 8260	94.9	% R	MQS	11/15/2007
Preparation	EPA 5035	1.0	CF	MQS	11/15/2007
PAHS BY GCMS	EPA 8270			CMG	11/18/2007



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Project No.: **21.0056365.00**

Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00106**

Sample ID: **SP - 10 4-6ft.**
Sample Date: **11/12/2007**

Sample No.: **006**

Test Performed	Method	Results	Units	Tech	Analysis Date
Naphthalene	EPA 8270	<330	ug/kg	CMG	11/18/2007
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Acenaphthene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Fluorene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Phenanthrene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Anthracene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Pyrene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Chrysene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	11/18/2007
Surrogates:	EPA 8270				
***Nitrobenzene-D5	EPA 8270	76.5	% R	CMG	11/18/2007
***2-Fluorobiphenyl	EPA 8270	71.1	% R	CMG	11/18/2007
***P-Terphenyl-D14	EPA 8270	74.7	% R	CMG	11/18/2007
Extraction	EPA 3545	1.0	DF	TN	11/14/2007

EPA Method 8260 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	11/15/07	
Volatile Organics	Conc. ug/kg	Acceptance Limit
dichlorodifluoromethane	< 100	< 100
chloromethane	< 100	< 100
vinyl chloride	< 50	< 50
bromomethane	< 100	< 100
chloroethane	< 50	< 50
trichlorofluoromethane	< 100	< 100
diethyl ether	< 250	< 250
acrolein	< 1300	< 1300
acetone	< 1300	< 1300
1,1-dichloroethene	< 50	< 50
FREON-113	< 100	< 100
iodomethane	< 50	< 50
carbon disulfide	< 500	< 500
dichloromethane	< 100	< 100
tert-butyl alcohol (TBA)	< 1300	< 1300
acrylonitrile	< 50	< 50
methyl-tert-butyl-ether	< 50	< 50
trans-1,2-dichloroethene	< 50	< 50
1,1-dichloroethane	< 50	< 50
di-isopropyl ether (DIPE)	< 100	< 100
ethyl tert-butyl ether (EtBE)	< 100	< 100
vinyl acetate	< 1300	< 1300
2-butanone	< 1300	< 1300
2,2-dichloropropane	< 50	< 50
cis-1,2-dichloroethene	< 50	< 50
chloroform	< 50	< 50
bromochloromethane	< 50	< 50
tetrahydrofuran	< 500	< 500
1,1,1-trichloroethane	< 50	< 50
1,1-dichloropropene	< 50	< 50
carbon tetrachloride	< 50	< 50
1,2-dichloroethane	< 50	< 50
benzene	< 50	< 50
tert-amyl methyl ether (TAME)	< 100	< 100
trichloroethene	< 50	< 50
1,2-dichloropropane	< 50	< 50
bromodichloromethane	< 50	< 50
1,4-Dioxane	< 5000	< 5000
1,1-dibromomethane	< 50	< 50
4-methyl-2-pentanone	< 1300	< 1300
cis-1,3-dichloropropene	< 50	< 50
toluene	< 50	< 50
trans-1,3-dichloropropene	< 100	< 100
1,1,2-trichloroethane	< 50	< 50
2-hexanone	< 1300	< 1300
1,3-dichloropropane	< 50	< 50
tetrachloroethene	< 50	< 50
1,1,1,2-tetrachloroethane	< 50	< 50
1,2-dibromoethane (EDB)	< 100	< 100
chlorobenzene	< 50	< 50
1,1,1,2-tetrachloroethane	< 50	< 50
ethylbenzene	< 50	< 50
1,1,2,2-tetrachloroethane	< 50	< 50
m&p-xylene	< 100	< 100
o-xylene	< 50	< 50
styrene	< 50	< 50
bromoform	< 100	< 100
isopropylbenzene	< 50	< 50
1,2,3-trichloropropane	< 50	< 50
bromobenzene	< 50	< 50
n-propylbenzene	< 50	< 50
2-chlorotoluene	< 50	< 50
1,3,5-trimethylbenzene	< 50	< 50
trans-1,4-dichloro-2-butene	< 100	< 100
4-chlorotoluene	< 50	< 50
tert-butyl-benzene	< 50	< 50
1,2,4-trimethylbenzene	< 50	< 50
sec-butyl-benzene	< 50	< 50
p-isopropyltoluene	< 50	< 50
1,3-dichlorobenzene	< 50	< 50
1,4-dichlorobenzene	< 50	< 50
n-butylbenzene	< 50	< 50
1,2-dichlorobenzene	< 50	< 50
1,2-dibromo-3-chloropropane	< 250	< 250
1,2,4-trichlorobenzene	< 50	< 50
hexachlorobutadiene	< 50	< 50
naphthalene	< 100	< 100
1,2,3-trichlorobenzene	< 50	< 50

Laboratory Control Sample

Date Analyzed:	11/15/07		
Spike Concentration = 2500ug/kg	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	133	70-130	out
chloromethane	113	70-130	ok
vinyl chloride	97.0	70-130	ok
bromomethane	69.8	70-130	out
chloroethane	71.1	70-130	ok
trichlorofluoromethane	96.4	70-130	ok
diethyl ether	86.1	70-130	ok
acrolein	115	70-130	ok
acetone	109	70-130	ok
1,1-dichloroethene	90.2	70-130	ok
FREON-113	86.3	70-130	ok
iodomethane	86.1	70-130	ok
carbon disulfide	90.7	70-130	ok
dichloromethane	90.5	70-130	ok
tert-butyl alcohol (TBA)	129	70-130	ok
acrylonitrile	110	70-130	ok
methyl-tert-butyl-ether	101	70-130	ok
trans-1,2-dichloroethene	95.1	70-130	ok
1,1-dichloroethane	104	70-130	ok
di-isopropyl ether (DIPE)	106	70-130	ok
ethyl tert-butyl ether (EtBE)	109	70-130	ok
vinyl acetate	108	70-130	ok
2-butanone	97.0	70-130	ok
2,2-dichloropropane	100	70-130	ok
cis-1,2-dichloroethene	93.5	70-130	ok
chloroform	95.0	70-130	ok
bromochloromethane	91.1	70-130	ok
tetrahydrofuran	112	70-130	ok
1,1,1-trichloroethane	105	70-130	ok
1,1-dichloropropene	103	70-130	ok
carbon tetrachloride	109	70-130	ok
1,2-dichloroethane	118	70-130	ok
benzene	96.8	70-130	ok
tert-amyl methyl ether (TAME)	104	70-130	ok
trichloroethene	95.2	70-130	ok
1,2-dichloropropane	103	70-130	ok
bromodichloromethane	99.1	70-130	ok
1,4-Dioxane	108	70-130	ok
1,1-dibromomethane	94.7	70-130	ok
4-methyl-2-pentanone	114	70-130	ok
cis-1,3-dichloropropene	104	70-130	ok
toluene	98.1	70-130	ok
trans-1,3-dichloropropene	104	70-130	ok
1,1,2-trichloroethane	104	70-130	ok
2-hexanone	120	70-130	ok
1,3-dichloropropane	103	70-130	ok
tetrachloroethene	95.0	70-130	ok
1,1,1,2-tetrachloroethane	101	70-130	ok
1,2-dibromoethane (EDB)	109	70-130	ok
chlorobenzene	102	70-130	ok
1,1,1,2-tetrachloroethane	101	70-130	ok
ethylbenzene	102	70-130	ok
1,1,2,2-tetrachloroethane	103	70-130	ok
m&p-xylene	105	70-130	ok
o-xylene	111	70-130	ok
styrene	108	70-130	ok
bromoform	111	70-130	ok
isopropylbenzene	110	70-130	ok
1,2,3-trichloropropane	115	70-130	ok
bromobenzene	99.8	70-130	ok
n-propylbenzene	107	70-130	ok
2-chlorotoluene	114	70-130	ok
1,3,5-trimethylbenzene	111	70-130	ok
trans-1,4-dichloro-2-butene	117	70-130	ok
4-chlorotoluene	110	70-130	ok
tert-butyl-benzene	105	70-130	ok
1,2,4-trimethylbenzene	110	70-130	ok
sec-butyl-benzene	108	70-130	ok
p-isopropyltoluene	108	70-130	ok
1,3-dichlorobenzene	101	70-130	ok
1,4-dichlorobenzene	101	70-130	ok
n-butylbenzene	111	70-130	ok
1,2-dichlorobenzene	98.1	70-130	ok
1,2-dibromo-3-chloropropane	117	70-130	ok
1,2,4-trichlorobenzene	108	70-130	ok
hexachlorobutadiene	105	70-130	ok
naphthalene	109	70-130	ok
1,2,3-trichlorobenzene	109	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	106	70-130	DIBROMOFLUOROMETHANE	92.6	70-130	ok
1,2-DICHLOROETHANE-D4	102	70-130	1,2-DICHLOROETHANE-D4	105	70-130	ok
TOLUENE-D8	105	70-130	TOLUENE-D8	93.5	70-130	ok
4-BROMOFLUOROBENZENE	92.4	70-130	4-BROMOFLUOROBENZENE	94.9	70-130	ok
1,2-DICHLOROBENZENE-D4	89.6	70-130	1,2-DICHLOROBENZENE-D4	93.5	70-130	ok

EPA Method 8260 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank			Laboratory Control Sample				
Date Analyzed:	11/17/07		Date Analyzed:	11/17/07			
Volatile Organics	Conc. ug/kg	Acceptance Limit	Spike Concentration = 2500ug/kg	% Recovery	Acceptance Limits	Verdict	
dichlorodifluoromethane	< 100	< 100	dichlorodifluoromethane	139	70-130	out	
chloromethane	< 100	< 100	chloromethane	120	70-130	ok	
vinyl chloride	< 50	< 50	vinyl chloride	106	70-130	ok	
bromomethane	< 100	< 100	bromomethane	70.4	70-130	ok	
chloroethane	< 50	< 50	chloroethane	71.9	70-130	ok	
trichlorofluoromethane	< 100	< 100	trichlorofluoromethane	112	70-130	ok	
diethyl ether	< 250	< 250	diethyl ether	74.8	70-130	ok	
acrolein	< 1300	< 1300	acrolein	103	70-130	ok	
acetone	< 1300	< 1300	acetone	96.2	70-130	ok	
1,1-dichloroethene	< 50	< 50	1,1-dichloroethene	98.2	70-130	ok	
FREON-113	< 100	< 100	FREON-113	92.9	70-130	ok	
iodomethane	< 50	< 50	iodomethane	89.1	70-130	ok	
carbon disulfide	< 500	< 500	carbon disulfide	93.2	70-130	ok	
dichloromethane	< 100	< 100	dichloromethane	88.2	70-130	ok	
tert-butyl alcohol (TBA)	< 1300	< 1300	tert-butyl alcohol (TBA)	71.6	70-130	ok	
acrylonitrile	< 50	< 50	acrylonitrile	119	70-130	ok	
methyl-tert-butyl-ether	< 50	< 50	methyl-tert-butyl-ether	84.6	70-130	ok	
trans-1,2-dichloroethene	< 50	< 50	trans-1,2-dichloroethene	101	70-130	ok	
1,1-dichloroethane	< 50	< 50	1,1-dichloroethane	108	70-130	ok	
di-isopropyl ether (DIPE)	< 100	< 100	di-isopropyl ether (DIPE)	99.7	70-130	ok	
ethyl tert-butyl ether (ETBE)	< 100	< 100	ethyl tert-butyl ether (ETBE)	94.7	70-130	ok	
vinyl acetate	< 1300	< 1300	vinyl acetate	96.7	70-130	ok	
2-butanone	< 1300	< 1300	2-butanone	76.6	70-130	ok	
2,2-dichloropropane	< 50	< 50	2,2-dichloropropane	95.6	70-130	ok	
cis-1,2-dichloroethene	< 50	< 50	cis-1,2-dichloroethene	96.0	70-130	ok	
chloroform	< 50	< 50	chloroform	96.8	70-130	ok	
bromochloromethane	< 50	< 50	bromochloromethane	83.8	70-130	ok	
tetrahydrofuran	< 500	< 500	tetrahydrofuran	109	70-130	ok	
1,1,1-trichloroethane	< 50	< 50	1,1,1-trichloroethane	117	70-130	ok	
1,1-dichloropropene	< 50	< 50	1,1-dichloropropene	99.1	70-130	ok	
carbon tetrachloride	< 50	< 50	carbon tetrachloride	111	70-130	ok	
1,2-dichloroethane	< 50	< 50	1,2-dichloroethane	107	70-130	ok	
benzene	< 50	< 50	benzene	98.0	70-130	ok	
tert-amyl methyl ether (TAME)	< 100	< 100	tert-amyl methyl ether (TAME)	83.1	70-130	ok	
trichloroethene	< 50	< 50	trichloroethene	93.4	70-130	ok	
1,2-dichloropropane	< 50	< 50	1,2-dichloropropane	100	70-130	ok	
bromodichloromethane	< 50	< 50	bromodichloromethane	93.3	70-130	ok	
1,4-Dioxane	< 5000	< 5000	1,4-Dioxane	88.8	70-130	ok	
dibromomethane	< 50	< 50	dibromomethane	85.9	70-130	ok	
4-methyl-2-pentanone	< 1300	< 1300	4-methyl-2-pentanone	90.0	70-130	ok	
cis-1,3-dichloropropene	< 50	< 50	cis-1,3-dichloropropene	92.3	70-130	ok	
toluene	< 50	< 50	toluene	101	70-130	ok	
trans-1,3-dichloropropene	< 100	< 100	trans-1,3-dichloropropene	88.2	70-130	ok	
1,1,2-trichloroethane	< 50	< 50	1,1,2-trichloroethane	97.1	70-130	ok	
2-hexanone	< 1300	< 1300	2-hexanone	99.3	70-130	ok	
1,3-dichloropropane	< 50	< 50	1,3-dichloropropane	95.4	70-130	ok	
tetrachloroethene	< 50	< 50	tetrachloroethene	106	70-130	ok	
dibromochloromethane	< 50	< 50	dibromochloromethane	93.8	70-130	ok	
1,2-dibromoethane (EDB)	< 100	< 100	1,2-dibromoethane (EDB)	103	70-130	ok	
chlorobenzene	< 50	< 50	chlorobenzene	109	70-130	ok	
1,1,1,2-tetrachloroethane	< 50	< 50	1,1,1,2-tetrachloroethane	101	70-130	ok	
ethylbenzene	< 50	< 50	ethylbenzene	113	70-130	ok	
1,1,2,2-tetrachloroethane	< 50	< 50	1,1,2,2-tetrachloroethane	90.7	70-130	ok	
m&p-xylene	< 100	< 100	m&p-xylene	115	70-130	ok	
o-xylene	< 50	< 50	o-xylene	114	70-130	ok	
styrene	< 50	< 50	styrene	109	70-130	ok	
bromofom	< 100	< 100	bromofom	94.3	70-130	ok	
isopropylbenzene	< 50	< 50	isopropylbenzene	119	70-130	ok	
1,2,3-trichloropropane	< 50	< 50	1,2,3-trichloropropane	97.3	70-130	ok	
bromobenzene	< 50	< 50	bromobenzene	93.6	70-130	ok	
n-propylbenzene	< 50	< 50	n-propylbenzene	113	70-130	ok	
2-chlorotoluene	< 50	< 50	2-chlorotoluene	120	70-130	ok	
1,3,5-trimethylbenzene	< 50	< 50	1,3,5-trimethylbenzene	119	70-130	ok	
trans-1,4-dichloro-2-butene	< 100	< 100	trans-1,4-dichloro-2-butene	104	70-130	ok	
4-chlorotoluene	< 50	< 50	4-chlorotoluene	113	70-130	ok	
tert-butyl-benzene	< 50	< 50	tert-butyl-benzene	114	70-130	ok	
1,2,4-trimethylbenzene	< 50	< 50	1,2,4-trimethylbenzene	119	70-130	ok	
sec-butyl-benzene	< 50	< 50	sec-butyl-benzene	122	70-130	ok	
p-isopropyltoluene	< 50	< 50	p-isopropyltoluene	124	70-130	ok	
1,3-dichlorobenzene	< 50	< 50	1,3-dichlorobenzene	102	70-130	ok	
1,4-dichlorobenzene	< 50	< 50	1,4-dichlorobenzene	101	70-130	ok	
n-butylbenzene	< 50	< 50	n-butylbenzene	127	70-130	ok	
1,2-dichlorobenzene	< 50	< 50	1,2-dichlorobenzene	97.6	70-130	ok	
1,2-dibromo-3-chloropropane	< 250	< 250	1,2-dibromo-3-chloropropane	98.3	70-130	ok	
1,2,4-trichlorobenzene	< 50	< 50	1,2,4-trichlorobenzene	103	70-130	ok	
hexachlorobutadiene	< 50	< 50	hexachlorobutadiene	117	70-130	ok	
naphthalene	< 100	< 100	naphthalene	93.1	70-130	ok	
1,2,3-trichlorobenzene	< 50	< 50	1,2,3-trichlorobenzene	97.9	70-130	ok	

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	103	70-130	DIBROMOFLUOROMETHANE	92.9	70-130	ok
1,2-DICHLOROETHANE-D4	90.0	70-130	1,2-DICHLOROETHANE-D4	101	70-130	ok
TOLUENE-D8	106	70-130	TOLUENE-D8	99.5	70-130	ok
4-BROMOFLUOROBENZENE	92.8	70-130	4-BROMOFLUOROBENZENE	94.6	70-130	ok
1,2-DICHLOROBENZENE-D4	96.1	70-130	1,2-DICHLOROBENZENE-D4	93.3	70-130	ok

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH STREET, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 8082 ANALYSIS
QUALITY CONTROL SOLID

DATE EXTRACTED: 11/14/07

DATE ANALYZED: 11/17/07

METHOD BLANK	Concentration		Quantitation Limit
POLYCHLORINATED BIPHENYLS as AROCLORS	ug/kg-PPB		ug/kg-PPB
Aroclor 1262	ND		25.0
Aroclor 1260	ND		25.0
Aroclor 1254	ND		25.0
Aroclor 1248	ND		25.0
Aroclor 1242/1016	ND		25.0
Aroclor 1232	ND		25.0
Aroclor 1221	ND		25.0
Aroclor 1268	ND		25.0
Surrogates:	(A)	(B)	
Tetrachloro-m-xylene	103	106	30-150
Decachlorobiphenyl	113	109	30-150

LABORATORY CONTROL SAMPLE (LCS)	% Recovery		Acceptance Limits
Aroclor 1016	108	129	40-140
Aroclor 1260	118	110	40-140
Surrogates:			
Tetrachloro-m-xylene	115	114	30-150
Decachlorobiphenyl	118	119	30-150

*Matrix Spike/Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Extracted: 11/14/07
Date Analyzed: 11/17/07
File Name: L5726

		Reporting Limit (ug/kg)
Semi-Volatile Organics	Result	
naphthalene	ND	330
2-methylnaphthalene	ND	330
acenaphthylene	ND	330
acenaphthene	ND	330
fluorene	ND	330
phenanthrene	ND	330
anthracene	ND	330
fluoranthene	ND	330
pyrene	ND	330
benz [a] anthracene	ND	330
chrysene	ND	330
benzo [b] fluoranthene	ND	330
benzo [k] fluoranthene	ND	330
benzo [a] pyrene	ND	330
indeno [1,2,3-cd] pyrene	ND	330
dibenz [a,h] anthracene	ND	330
benzo [ghi] perylene	ND	330

Surrogates:	Recovery (%)	Acceptance Limits
NITROBENZENE-D5	83.2	30-130
2-FLUOROBIPHENYL	71.6	30-130
p-TERPHENYL-D14	80.1	30-130

EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Laboratory Control Sample

Date Extracted: 11/14/07
Date Analyzed: 11/17/07
File Name: L5727

Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
naphthalene	61.7	40-140	ok
2-methylnaphthalene	62.3	40-140	ok
acenaphthylene	60.7	40-140	ok
acenaphthene	63.2	40-140	ok
fluorene	66.6	40-140	ok
phenanthrene	74.9	40-140	ok
anthracene	75.0	40-140	ok
fluoranthene	74.5	40-140	ok
pyrene	72.4	40-140	ok
benz [a] anthracene	64.0	40-140	ok
chrysene	79.8	40-140	ok
benzo [b] fluoranthene	83.9	40-140	ok
benzo [k] fluoranthene	91.0	40-140	ok
benzo [a] pyrene	90.9	40-140	ok
indeno [1,2,3-cd] pyrene	79.0	40-140	ok
dibenzo [a,h] anthracene	83.3	40-140	ok
benzo [ghi] perylene	79.3	40-140	ok

CAM criteria allows 15% of analytes to exceed criteria.

Surrogates:	Recovery (%)	Acceptance Limits	Verdict
NITROBENZENE-D5	64.0	30-130	ok
2-FLUOROBIPHENYL	58.3	30-130	ok
p-TERPHENYL-D14	66.8	30-130	ok

CHAIN-OF-CUSTODY RECORD

W.O. # 0711-00106
(for lab use only)

Sample I.D.	Date/Time Sampled	Matrix A-Air S-Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. P-Product Other (specify)	ANALYSIS REQUIRED																		Total # of Cont.	Note #							
			☐ pH ☐ Cond.	GC Methane, Ethane, Ethene	EPA 8260 Full List	EPA 8260 - 8010 List (Chlor.)	EPA 8260 - 8021 list	EPA 8021 - 8020 List (BTEX)	EPA 524.2 DW VOCs	EPA 624 WW VOCs	☐ 601 ☐ 602 WW VOCs	EPA 8270 Full List	EPA 8270 PAH ☐ A ☐ BN	EPA 625 WW SVOCs	EPA 8082-PCBs	EPA 8081-Pest	TPH-GC (Mod. 8100)	TPH-GC w/FING.	EPH (MA DEP)	VPH (MA DEP)			Metals ☐ PPM-13 ☐ R-8	MCP 14 Metals (MA)	Metals (List Below)**	TCLP - Specify Below	SPLP - Specify Below	EPA 300 ☐ Cl ☐ SO4	EPA 300 ☐ NO2 ☐ NO3
SP-1	11/12/07 09:00	S			X						X																	2	
SP-4	11/12/07 11:00	S			X						X																	2	
SP-5	11/14/07 11:45	S			X						X																	2	
SP-7	12/30/07 12:30	S			X						X																	1	
SP-9	15:00	S			X						X																	2	
SP-10	15:45	S			X						X																	4	
SP-1	13:00	GW			X						X																	3	
SP-9	11/20/07 11:00	GW			X						X																		
Temp Blank																													

PRESERVATIVE (Cl - HCl, M=Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)

PROJECT MANAGER: M. W. Johnson EXT: (716) 685-2300

GZA GEOENVIRONMENTAL, INC.

Laboratory Division

106 South Street
Hopkinton, MA 01748
(781) 278-4700
FAX (508) 435-9912

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4° C)
*Specify "Other" preservatives and containers types in this space.
SOIL 8260 → CH3OH Preserve
8260 → CH1 Preserve.
NOTE #1 over 9,999 PPM
#2 322 PPM

TURNAROUND TIME: Standard Rush Days, Approved by _____

LAB USE: TEMP. OF COOLER 4.7 °C Temp Blank Cooler Air 0702

GZA FILE NO: 21.0056365 TASK NO: _____

PROJECT 500 SENECA ST - NEW ERA P.O. NO. 111367

LOCATION 500 SENECA ST, BUFFALO, NY

COLLECTOR(S) J. DAVIRIE SHEET 1 OF 1



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project No.: **21.0056365.00**
Work Order No.: **0711-00107**
Date Received: **11/13/2007**
Date Reported: **11/20/2007**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
11/12/2007	Aqueous	0711-00107 001	SP - 1
11/12/2007	Aqueous	0711-00107 002	SP - 9



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ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
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Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00107**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 11/13/07 via GZA courier, x UPS, FEDEX, or hand delivered. The temperature of the temperature blank/ x cooler air, was 4.7 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference.

2. EPA Method 8260 - VOCs

Attach QC 8260 11/14/07 S - Aqueous
Attach QC 8260 11/15/07 S - Aqueous



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ANALYTICAL REPORT

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Data Authorized By: _____

NELAC certification, as indicated by the NELAC Lab ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:

% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
CF = Calculation Factor
DO = Diluted Out

Method Key:

Method 8260: The current version of the method is 8260B.
Method 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
Method 6010: The current version of the method is 6010B.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
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Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00107**

Sample ID: **SP - 1**
Sample Date: **11/12/2007**

Sample No.: **001**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	11/14/2007
Dichlorodifluoromethane	EPA 8260	<20	ug/L	MQS	11/14/2007
Chloromethane	EPA 8260	<20	ug/L	MQS	11/14/2007
Vinyl Chloride	EPA 8260	<10	ug/L	MQS	11/14/2007
Bromomethane	EPA 8260	<20	ug/L	MQS	11/14/2007
Chloroethane	EPA 8260	<10	ug/L	MQS	11/14/2007
Trichlorofluoromethane	EPA 8260	<20	ug/L	MQS	11/14/2007
Diethylether	EPA 8260	<50	ug/L	MQS	11/14/2007
Acetone	EPA 8260	<250	ug/L	MQS	11/14/2007
1,1-Dichloroethene	EPA 8260	<10	ug/L	MQS	11/14/2007
Dichloromethane	EPA 8260	<20	ug/L	MQS	11/14/2007
Methyl-Tert-Butyl-Ether	EPA 8260	<10	ug/L	MQS	11/14/2007
trans-1,2-Dichloroethene	EPA 8260	<10	ug/L	MQS	11/14/2007
1,1-Dichloroethane	EPA 8260	<10	ug/L	MQS	11/14/2007
2-Butanone	EPA 8260	<250	ug/L	MQS	11/14/2007
2,2-Dichloropropane	EPA 8260	<10	ug/L	MQS	11/14/2007
cis-1,2-Dichloroethene	EPA 8260	<10	ug/L	MQS	11/14/2007
Chloroform	EPA 8260	<10	ug/L	MQS	11/14/2007
Bromochloromethane	EPA 8260	<10	ug/L	MQS	11/14/2007
Tetrahydrofuran	EPA 8260	<100	ug/L	MQS	11/14/2007
1,1,1-Trichloroethane	EPA 8260	<10	ug/L	MQS	11/14/2007
1,1-Dichloropropene	EPA 8260	<10	ug/L	MQS	11/14/2007
Carbon Tetrachloride	EPA 8260	<10	ug/L	MQS	11/14/2007
1,2-Dichloroethane	EPA 8260	<10	ug/L	MQS	11/14/2007
Benzene	EPA 8260	970	ug/L	MQS	11/14/2007
Trichloroethene	EPA 8260	<10	ug/L	MQS	11/14/2007
1,2-Dichloropropane	EPA 8260	<10	ug/L	MQS	11/14/2007
Bromodichloromethane	EPA 8260	<10	ug/L	MQS	11/14/2007
Dibromomethane	EPA 8260	<10	ug/L	MQS	11/14/2007
4-Methyl-2-Pentanone	EPA 8260	<250	ug/L	MQS	11/14/2007
cis-1,3-Dichloropropene	EPA 8260	<10	ug/L	MQS	11/14/2007
Toluene	EPA 8260	<10	ug/L	MQS	11/14/2007
trans-1,3-Dichloropropene	EPA 8260	<20	ug/L	MQS	11/14/2007
1,1,2-Trichloroethane	EPA 8260	<10	ug/L	MQS	11/14/2007
2-Hexanone	EPA 8260	<250	ug/L	MQS	11/14/2007
1,3-Dichloropropane	EPA 8260	<10	ug/L	MQS	11/14/2007
Tetrachloroethene	EPA 8260	<10	ug/L	MQS	11/14/2007



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Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00107**

Sample ID: **SP - 1**

Sample No.: **001**

Sample Date: **11/12/2007**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<10	ug/L	MQS	11/14/2007
1,2-Dibromoethane (EDB)	EPA 8260	<20	ug/L	MQS	11/14/2007
Chlorobenzene	EPA 8260	<10	ug/L	MQS	11/14/2007
1,1,1,2-Tetrachloroethane	EPA 8260	<10	ug/L	MQS	11/14/2007
Ethylbenzene	EPA 8260	11	ug/L	MQS	11/14/2007
m&p-Xylene	EPA 8260	36	ug/L	MQS	11/14/2007
o-Xylene	EPA 8260	15	ug/L	MQS	11/14/2007
Styrene	EPA 8260	<10	ug/L	MQS	11/14/2007
Bromoform	EPA 8260	<20	ug/L	MQS	11/14/2007
Isopropylbenzene	EPA 8260	34	ug/L	MQS	11/14/2007
1,1,2,2-Tetrachloroethane	EPA 8260	<10	ug/L	MQS	11/14/2007
1,2,3-Trichloropropane	EPA 8260	<10	ug/L	MQS	11/14/2007
Bromobenzene	EPA 8260	<10	ug/L	MQS	11/14/2007
N-Propylbenzene	EPA 8260	75	ug/L	MQS	11/14/2007
2-Chlorotoluene	EPA 8260	<10	ug/L	MQS	11/14/2007
1,3,5-Trimethylbenzene	EPA 8260	<10	ug/L	MQS	11/14/2007
4-Chlorotoluene	EPA 8260	<10	ug/L	MQS	11/14/2007
tert-Butylbenzene	EPA 8260	<10	ug/L	MQS	11/14/2007
1,2,4-Trimethylbenzene	EPA 8260	<10	ug/L	MQS	11/14/2007
sec-Butylbenzene	EPA 8260	11	ug/L	MQS	11/14/2007
p-Isopropyltoluene	EPA 8260	<10	ug/L	MQS	11/14/2007
1,3-Dichlorobenzene	EPA 8260	<10	ug/L	MQS	11/14/2007
1,4-Dichlorobenzene	EPA 8260	<10	ug/L	MQS	11/14/2007
n-Butylbenzene	EPA 8260	11	ug/L	MQS	11/14/2007
1,2-Dichlorobenzene	EPA 8260	<10	ug/L	MQS	11/14/2007
1,2-Dibromo-3-Chloropropane	EPA 8260	<50	ug/L	MQS	11/14/2007
1,2,4-Trichlorobenzene	EPA 8260	<10	ug/L	MQS	11/14/2007
Hexachlorobutadiene	EPA 8260	<10	ug/L	MQS	11/14/2007
Naphthalene	EPA 8260	<20	ug/L	MQS	11/14/2007
1,2,3-Trichlorobenzene	EPA 8260	<10	ug/L	MQS	11/14/2007
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	108	% R	MQS	11/14/2007
***Toluene-D8	EPA 8260	119	% R	MQS	11/14/2007
***4-Bromofluorobenzene	EPA 8260	94.9	% R	MQS	11/14/2007
Preparation	EPA 5030B	10	CF	MQS	11/14/2007



ANALYTICAL REPORT

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Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00107**

Sample ID: **SP - 9**

Sample No.: **002**

Sample Date: **11/12/2007**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	11/14/2007
Dichlorodifluoromethane	EPA 8260	<5.0	ug/L	MQS	11/14/2007
Chloromethane	EPA 8260	<5.0	ug/L	MQS	11/14/2007
Vinyl Chloride	EPA 8260	6.7	ug/L	MQS	11/14/2007
Bromomethane	EPA 8260	<5.0	ug/L	MQS	11/14/2007
Chloroethane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Trichlorofluoromethane	EPA 8260	<5.0	ug/L	MQS	11/14/2007
Diethylether	EPA 8260	<13	ug/L	MQS	11/14/2007
Acetone	EPA 8260	<63	ug/L	MQS	11/14/2007
1,1-Dichloroethene	EPA 8260	5.2	ug/L	MQS	11/14/2007
Dichloromethane	EPA 8260	<5.0	ug/L	MQS	11/14/2007
Methyl-Tert-Butyl-Ether	EPA 8260	<2.5	ug/L	MQS	11/14/2007
trans-1,2-Dichloroethene	EPA 8260	4.8	ug/L	MQS	11/14/2007
1,1-Dichloroethane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
2-Butanone	EPA 8260	<63	ug/L	MQS	11/14/2007
2,2-Dichloropropane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
cis-1,2-Dichloroethene	EPA 8260	380	ug/L	MQS	11/14/2007
Chloroform	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Bromochloromethane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Tetrahydrofuran	EPA 8260	<25	ug/L	MQS	11/14/2007
1,1,1-Trichloroethane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,1-Dichloropropene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Carbon Tetrachloride	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,2-Dichloroethane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Benzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Trichloroethene	EPA 8260	2100	ug/L	MQS	11/16/2007
1,2-Dichloropropane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Bromodichloromethane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Dibromomethane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
4-Methyl-2-Pentanone	EPA 8260	<63	ug/L	MQS	11/14/2007
cis-1,3-Dichloropropene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Toluene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
trans-1,3-Dichloropropene	EPA 8260	<5.0	ug/L	MQS	11/14/2007
1,1,2-Trichloroethane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
2-Hexanone	EPA 8260	<63	ug/L	MQS	11/14/2007
1,3-Dichloropropane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Tetrachloroethene	EPA 8260	20000	ug/L	MQS	11/16/2007



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
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Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **11/13/2007**
Date Reported: **11/20/2007**
Work Order No.: **0711-00107**

Sample ID: **SP - 9**
Sample Date: **11/12/2007**

Sample No.: **002**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,2-Dibromoethane (EDB)	EPA 8260	<5.0	ug/L	MQS	11/14/2007
Chlorobenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,1,1,2-Tetrachloroethane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Ethylbenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
m&p-Xylene	EPA 8260	<5.0	ug/L	MQS	11/14/2007
o-Xylene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Styrene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Bromoform	EPA 8260	<5.0	ug/L	MQS	11/14/2007
Isopropylbenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,1,2,2-Tetrachloroethane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,2,3-Trichloropropane	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Bromobenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
N-Propylbenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
2-Chlorotoluene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,3,5-Trimethylbenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
4-Chlorotoluene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
tert-Butylbenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,2,4-Trimethylbenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
sec-Butylbenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
p-Isopropyltoluene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,3-Dichlorobenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,4-Dichlorobenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
n-Butylbenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,2-Dichlorobenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
1,2-Dibromo-3-Chloropropane	EPA 8260	<13	ug/L	MQS	11/14/2007
1,2,4-Trichlorobenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Hexachlorobutadiene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Naphthalene	EPA 8260	<5.0	ug/L	MQS	11/14/2007
1,2,3-Trichlorobenzene	EPA 8260	<2.5	ug/L	MQS	11/14/2007
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	96.5	% R	MQS	11/14/2007
***Toluene-D8	EPA 8260	92.3	% R	MQS	11/14/2007
***4-Bromofluorobenzene	EPA 8260	97.8	% R	MQS	11/14/2007
Preparation	EPA 5030B	2.5	CF	MQS	11/14/2007

EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank			Laboratory Control Sample			
Date Analyzed:	11/14/07		Date Analyzed:	11/14/07		
Volatile Organics	Conc. ug/L	Acceptance Limit	Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	< 1.0	< 1.0	dichlorodifluoromethane	156	70-130	out
chloromethane	< 1.0	< 1.0	chloromethane	132	70-130	out
vinyl chloride	< 0.5	< 0.5	vinyl chloride	122	70-130	ok
bromomethane	< 1.0	< 1.0	bromomethane	105	70-130	ok
chloroethane	< 0.5	< 0.5	chloroethane	113	70-130	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	139	70-130	out
diethyl ether	< 2.5	< 2.5	diethyl ether	107	70-130	ok
acrolein	< 13	< 13	acrolein	134	70-130	out
acetone	< 13	< 13	acetone	115	70-130	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	110	70-130	ok
FREON-113	< 1.0	< 1.0	FREON-113	105	70-130	ok
iodomethane	< 0.5	< 0.5	iodomethane	102	70-130	ok
carbon disulfide	< 5.0	< 5.0	carbon disulfide	107	70-130	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	102	70-130	ok
tert-butyl alcohol (TBA)	< 13	< 13	tert-butyl alcohol (TBA)	123	70-130	ok
acrylonitrile	< 0.5	< 0.5	acrylonitrile	126	70-130	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	111	70-130	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	108	70-130	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	117	70-130	ok
di-isopropyl ether (DIPE)	< 1.0	< 1.0	di-isopropyl ether (DIPE)	118	70-130	ok
ethyl tert-butyl ether (EtBE)	< 1.0	< 1.0	ethyl tert-butyl ether (EtBE)	121	70-130	ok
vinyl acetate	< 13	< 13	vinyl acetate	119	70-130	ok
2-butanone	< 13	< 13	2-butanone	101	70-130	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	121	70-130	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	104	70-130	ok
chloroform	< 0.5	< 0.5	chloroform	107	70-130	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	99.8	70-130	ok
tetrahydrofuran	< 5.0	< 5.0	tetrahydrofuran	124	70-130	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	119	70-130	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	107	70-130	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	118	70-130	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	119	70-130	ok
benzene	< 0.5	< 0.5	benzene	94.7	70-130	ok
tert-amyl methyl ether (TAME)	< 1.0	< 1.0	tert-amyl methyl ether (TAME)	93.7	70-130	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	105	70-130	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	114	70-130	ok
bromodichloromethane	< 0.5	< 0.5	bromodichloromethane	110	70-130	ok
1,4-Dioxane	< 50	< 50	1,4-Dioxane	119	70-130	ok
dibromomethane	< 0.5	< 0.5	dibromomethane	105	70-130	ok
4-methyl-2-pentanone	< 13	< 13	4-methyl-2-pentanone	123	70-130	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	116	70-130	ok
toluene	< 0.5	< 0.5	toluene	112	70-130	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	116	70-130	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	104	70-130	ok
2-hexanone	< 13	< 13	2-hexanone	115	70-130	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	102	70-130	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	97.0	70-130	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	100	70-130	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	108	70-130	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	104	70-130	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	103	70-130	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	105	70-130	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	104	70-130	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	107	70-130	ok
o-xylene	< 0.5	< 0.5	o-xylene	108	70-130	ok
styrene	< 0.5	< 0.5	styrene	105	70-130	ok
bromofom	< 1.0	< 1.0	bromofom	107	70-130	ok
isopropylbenzene	< 0.5	< 0.5	isopropylbenzene	108	70-130	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	112	70-130	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	96.4	70-130	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	107	70-130	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	111	70-130	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	111	70-130	ok
trans-1,4-dichloro-2-butene	< 1.0	< 1.0	trans-1,4-dichloro-2-butene	116	70-130	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	110	70-130	ok
tert-butyl-benzene	< 0.5	< 0.5	tert-butyl-benzene	109	70-130	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	115	70-130	ok
sec-butyl-benzene	< 0.5	< 0.5	sec-butyl-benzene	115	70-130	ok
p-isopropyltoluene	< 0.5	< 0.5	p-isopropyltoluene	116	70-130	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	108	70-130	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	105	70-130	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	116	70-130	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	104	70-130	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	118	70-130	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	107	70-130	ok
hexachlorobutadiene	< 0.5	< 0.5	hexachlorobutadiene	107	70-130	ok
naphthalene	< 1.0	< 1.0	naphthalene	106	70-130	ok
1,2,3-trichlorobenzene	< 0.5	< 0.5	1,2,3-trichlorobenzene	105	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	104	70-130	DIBROMOFLUOROMETHANE	104	70-130	ok
1,2-DICHLOROETHANE-D4	90.7	70-130	1,2-DICHLOROETHANE-D4	104	70-130	ok
TOLUENE-D8	105	70-130	TOLUENE-D8	108	70-130	ok
4-BROMOFLUOROBENZENE	93.4	70-130	4-BROMOFLUOROBENZENE	94.2	70-130	ok
1,2-DICHLOROBENZENE-D4	97.6	70-130	1,2-DICHLOROBENZENE-D4	99.9	70-130	ok

EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	11/15/07	
Volatile Organics	Conc. ug/L	Acceptance Limit
dichlorodifluoromethane	< 1.0	< 1.0
chloromethane	< 1.0	< 1.0
vinyl chloride	< 0.5	< 0.5
bromomethane	< 1.0	< 1.0
chloroethane	< 0.5	< 0.5
trichlorofluoromethane	< 1.0	< 1.0
diethyl ether	< 2.5	< 2.5
acrolein	< 13	< 13
acetone	< 13	< 13
1,1-dichloroethene	< 0.5	< 0.5
FREON-113	< 1.0	< 1.0
iodomethane	< 0.5	< 0.5
carbon disulfide	< 5.0	< 5.0
dichloromethane	< 1.0	< 1.0
tert-butyl alcohol (TBA)	< 13	< 13
acrylonitrile	< 0.5	< 0.5
methyl-tert-butyl-ether	< 0.5	< 0.5
trans-1,2-dichloroethene	< 0.5	< 0.5
1,1-dichloroethane	< 0.5	< 0.5
di-isopropyl ether (DIPE)	< 1.0	< 1.0
ethyl tert-butyl ether (EtBE)	< 1.0	< 1.0
vinyl acetate	< 13	< 13
2-butanone	< 13	< 13
2,2-dichloropropane	< 0.5	< 0.5
cis-1,2-dichloroethene	< 0.5	< 0.5
chloroform	< 0.5	< 0.5
bromochloromethane	< 0.5	< 0.5
tetrahydrofuran	< 5.0	< 5.0
1,1,1-trichloroethane	< 0.5	< 0.5
1,1-dichloropropene	< 0.5	< 0.5
carbon tetrachloride	< 0.5	< 0.5
1,2-dichloroethane	< 0.5	< 0.5
benzene	< 0.5	< 0.5
tert-amyl methyl ether (TAME)	< 1.0	< 1.0
trichloroethene	< 0.5	< 0.5
1,2-dichloropropane	< 0.5	< 0.5
bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
dibromomethane	< 0.5	< 0.5
4-methyl-2-pentanone	< 13	< 13
cis-1,3-dichloropropene	< 0.5	< 0.5
toluene	< 0.5	< 0.5
trans-1,3-dichloropropene	< 1.0	< 1.0
1,1,2-trichloroethane	< 0.5	< 0.5
2-hexanone	< 13	< 13
1,3-dichloropropane	< 0.5	< 0.5
tetrachloroethene	< 0.5	< 0.5
dibromochloromethane	< 0.5	< 0.5
1,2-dibromoethane (EDB)	< 1.0	< 1.0
chlorobenzene	< 0.5	< 0.5
1,1,1,2-tetrachloroethane	< 0.5	< 0.5
ethylbenzene	< 0.5	< 0.5
1,1,2,2-tetrachloroethane	< 0.5	< 0.5
m&p-xylene	< 1.0	< 1.0
o-xylene	< 0.5	< 0.5
styrene	< 0.5	< 0.5
bromofom	< 1.0	< 1.0
isopropylbenzene	< 0.5	< 0.5
1,2,3-trichloropropane	< 0.5	< 0.5
bromobenzene	< 0.5	< 0.5
n-propylbenzene	< 0.5	< 0.5
2-chlorotoluene	< 0.5	< 0.5
1,3,5-trimethylbenzene	< 0.5	< 0.5
trans-1,4-dichloro-2-butene	< 1.0	< 1.0
4-chlorotoluene	< 0.5	< 0.5
tert-butyl-benzene	< 0.5	< 0.5
1,2,4-trimethylbenzene	< 0.5	< 0.5
sec-butyl-benzene	< 0.5	< 0.5
p-isopropyltoluene	< 0.5	< 0.5
1,3-dichlorobenzene	< 0.5	< 0.5
1,4-dichlorobenzene	< 0.5	< 0.5
n-butylbenzene	< 0.5	< 0.5
1,2-dichlorobenzene	< 0.5	< 0.5
1,2-dibromo-3-chloropropane	< 2.5	< 2.5
1,2,4-trichlorobenzene	< 0.5	< 0.5
hexachlorobutadiene	< 0.5	< 0.5
naphthalene	< 1.0	< 1.0
1,2,3-trichlorobenzene	< 0.5	< 0.5

Laboratory Control Sample

Date Analyzed:	11/15/07		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	139	70-130	out
chloromethane	117	70-130	ok
vinyl chloride	107	70-130	ok
bromomethane	93.0	70-130	ok
chloroethane	98.8	70-130	ok
trichlorofluoromethane	127	70-130	ok
diethyl ether	98.7	70-130	ok
acrolein	131	70-130	out
acetone	113	70-130	ok
1,1-dichloroethene	102	70-130	ok
FREON-113	96.6	70-130	ok
iodomethane	93.6	70-130	ok
carbon disulfide	96.2	70-130	ok
dichloromethane	94.1	70-130	ok
tert-butyl alcohol (TBA)	116	70-130	ok
acrylonitrile	117	70-130	ok
methyl-tert-butyl-ether	105	70-130	ok
trans-1,2-dichloroethene	99.8	70-130	ok
1,1-dichloroethane	108	70-130	ok
di-isopropyl ether (DIPE)	108	70-130	ok
ethyl tert-butyl ether (EtBE)	110	70-130	ok
vinyl acetate	108	70-130	ok
2-butanone	91.3	70-130	ok
2,2-dichloropropane	95.4	70-130	ok
cis-1,2-dichloroethene	96.9	70-130	ok
chloroform	98.6	70-130	ok
bromochloromethane	93.4	70-130	ok
tetrahydrofuran	122	70-130	ok
1,1,1-trichloroethane	111	70-130	ok
1,1-dichloropropene	106	70-130	ok
carbon tetrachloride	116	70-130	ok
1,2-dichloroethane	121	70-130	ok
benzene	98.0	70-130	ok
tert-amyl methyl ether (TAME)	98.7	70-130	ok
trichloroethene	91.5	70-130	ok
1,2-dichloropropane	97.2	70-130	ok
bromodichloromethane	98.2	70-130	ok
1,4-Dioxane	97.1	70-130	ok
dibromomethane	90.0	70-130	ok
4-methyl-2-pentanone	111	70-130	ok
cis-1,3-dichloropropene	104	70-130	ok
toluene	103	70-130	ok
trans-1,3-dichloropropene	103	70-130	ok
1,1,2-trichloroethane	104	70-130	ok
2-hexanone	115	70-130	ok
1,3-dichloropropane	104	70-130	ok
tetrachloroethene	97.8	70-130	ok
dibromochloromethane	102	70-130	ok
1,2-dibromoethane (EDB)	111	70-130	ok
chlorobenzene	107	70-130	ok
1,1,1,2-tetrachloroethane	105	70-130	ok
ethylbenzene	107	70-130	ok
1,1,2,2-tetrachloroethane	105	70-130	ok
m&p-xylene	108	70-130	ok
o-xylene	109	70-130	ok
styrene	107	70-130	ok
bromofom	108	70-130	ok
isopropylbenzene	112	70-130	ok
1,2,3-trichloropropane	109	70-130	ok
bromobenzene	98.1	70-130	ok
n-propylbenzene	109	70-130	ok
2-chlorotoluene	109	70-130	ok
1,3,5-trimethylbenzene	113	70-130	ok
trans-1,4-dichloro-2-butene	112	70-130	ok
4-chlorotoluene	110	70-130	ok
tert-butyl-benzene	109	70-130	ok
1,2,4-trimethylbenzene	113	70-130	ok
sec-butyl-benzene	111	70-130	ok
p-isopropyltoluene	111	70-130	ok
1,3-dichlorobenzene	102	70-130	ok
1,4-dichlorobenzene	99.8	70-130	ok
n-butylbenzene	112	70-130	ok
1,2-dichlorobenzene	101	70-130	ok
1,2-dibromo-3-chloropropane	118	70-130	ok
1,2,4-trichlorobenzene	107	70-130	ok
hexachlorobutadiene	106	70-130	ok
naphthalene	106	70-130	ok
1,2,3-trichlorobenzene	108	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	124	70-130	DIBROMOFLUOROMETHANE	97.9	70-130	ok
1,2-DICHLOROETHANE-D4	108	70-130	1,2-DICHLOROETHANE-D4	108	70-130	ok
TOLUENE-D8	122	70-130	TOLUENE-D8	99.7	70-130	ok
4-BROMOFLUOROBENZENE	93.3	70-130	4-BROMOFLUOROBENZENE	98.0	70-130	ok
1,2-DICHLOROBENZENE-D4	95.8	70-130	1,2-DICHLOROBENZENE-D4	98.8	70-130	ok

CHAIN-OF-CUSTODY RECORD

W.O. # 0711-00107
(for lab use only)

Sample I.D.	Date/Time Sampled	Matrix A=Air S=Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. P=Product Other (Specify)	ANALYSIS REQUIRED														Total # of Cont.	Note #												
			☐ pH ☐ Cond.	GC Methane, Ethane, Ethene	EPA 8260 Full List	EPA 8260 - 8010 List (Chlor)	EPA 8260 - 8021 list	EPA 8021 - 8020 List (BTEX)	EPA 524.2 DW VOCs	EPA 624 WW VOCs	☐ 601 ☐ 602 WW VOCs	EPA 8270 Full List	EPA 8270 ☐ PAH ☐ A ☐ BN	EPA 625 WW SVOCs	EPA 8082-PCBs	EPA 8081-Pest			TPH-GC (Mod. 8100)	TPH-GC w/FING.	EPH (MA DEP)	VPH (MA DEP)	Metals ☐ PPM-13 ☐ R-8	MCP 14 Metals (MA)	Metals (List Below)**	TCLP - Specify Below	SPLP - Specify Below	EPA 300 ☐ Cl ☐ SO4	EPA 300 ☐ NO2 ☐ NO3	
SP-1	2-4 11/2/07 09:00	S			X						X	X	X																2	
SP-4	3-5 11/2/07 11:00	S			X						X	X	X																2	
SP-5	3-5 11/4/07 11:45	S			X						X	X	X																2	
SP-7	1-4 12/30	S																											1	
SP-9	6-8 15:00	S			X						X	X	X																2	
SP-10	4-6 15:45	S			X						X	X	X																2	
SP-1	13:00	GW			X						X																		4	
SP-9	16:00	GW			X						X																		3	
Temp Blank																														

PRESERVATIVE (C - HCl, M-Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION) DATE/TIME

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION) DATE/TIME

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION) DATE/TIME

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4° C)
*Specify "Other" preservatives and containers types in this space.

SOIL 8260 → CH3OH Preserve

NOTE #1 over 9,999 PPM

#2 322 PPM

PROJECT MANAGER: M. Williams EXT: 716 685-2300

GZA GEOENVIRONMENTAL, INC. Laboratory Division

TURNAROUND TIME: Standard Rush Days, Approved by 4.7 LAB USE: Temp Blank Cooler Air 0702

GZA FILE NO: 21.0056365 TASK NO: FORMER P.O. NO. 11/307

PROJECT 500 SENECA ST - NEW ERA AG

LOCATION 500 SENECA ST, BUFFALO, NY

COLLECTOR(S) J. DAVIDE SHEET 1 OF 1

Analytical Report Cover Page

For Lab Project # 01-4598

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report.

All soil or solid samples have been reported on a dry weight basis, unless qualified "reported as received".

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The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

"ND" = analyzed for but not detected.

"E" = Result has been estimated, calibration limit exceeded.

"D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

This report contains a total of 14 pages.



PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Hazard Evaluations, Inc.

Lab Project No.: 07-4598

Client Job Site: 500 Seneca

Sample Type: Soil
Method: SW846 9045C

Client Job No.: 15210

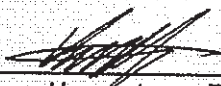
Date(s) Sampled: 12/13/2007
Date Received: 12/17/2007
Date Analyzed: 12/17/2007

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
15143	N/A	Soil Pile Comp.	8.59

ELAP ID No.: 10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt.

File ID: 074598.XLS



PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Hazard Evaluations, Inc.

Lab Project No.: 07-4598

Client Job Site: 500 Seneca

Sample Type: Soil

Client Job No.: 15210

Method: SW846 1010

Date(s) Sampled: 12/13/2007

Date Received: 12/17/2007

Date Analyzed: 12/17/2007

Laboratory Report for Flashpoint Analysis

Lab Sample No.	Field ID No.	Field Location	Flashpoint Results (°C)
15143	N/A	Soil Pile Comp.	>70.0

ELAP ID No.: 10958

Comments:

Approved By: 
Bruce Hoggsteger, Technical Director

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Lab Project No.: 07-4598

Client Job Site: 500 Seneca

Sample Type: TCLP Extract

Client Job No.: 15210

Analytical Method: EPA 6010

Date Sampled: 12/13/2007

Date Received: 12/17/2007

Date Analyzed: 12/19/2007

Laboratory Report for TCLP Lead Analysis

[illegible]

ELAP ID No.: 10958

Comments:

Approved By:

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt. File ID:074598.XLS



ENVIRONMENTAL SERVICES, INC. Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

- 5 -

PHC Analysis Report for Soils/Solids/Sludges

Client: Hazard Evaluations, Inc

Client Job Site: 500 Seneca
Client Job Number: 15210
Field Location: Soil Pile Comp
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 07-4598
Lab Sample Number: 15143
Date Sampled: 12/13/2007
Date Received: 12/17/2007
Date Analyzed: 12/21/2007

PHC Classification	Results in ug / Kg
Medium Weight PHC as: Kerosene	50,800

ELAP Number 10958

Method: NYSDOH 310.13

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
PHC = Petroleum Hydrocarbon

Signature: _____

Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

074598P1.XLS

**Volatile STARS Analysis Report for Soils/Solids/Sludges**Client: **Hazard Evaluations, Inc**

Client Job Site: 500 Seneca

Lab Project Number: 07-4598

Client Job Number: 15210

Lab Sample Number: 15144

Field Location: 500 Gallon Tank (North Wall)

Date Sampled: 12/13/2007

Field ID Number: N/A

Date Received: 12/17/2007

Sample Type: Soil

Date Analyzed: 12/21/2007

Aromatics	Results in ug / Kg
Benzene	28.1
n-Butylbenzene	80.3
sec-Butylbenzene	64.6
tert-Butylbenzene	ND< 30.1
Ethylbenzene	273
n-Propylbenzene	237
Isopropylbenzene	97.3
p-Isopropyltoluene	63.7
Naphthalene	534
Toluene	12.3
1,2,4-Trimethylbenzene	45.9
1,3,5-Trimethylbenzene	41.7
m,p-Xylene	127
o-Xylene	33.6
Miscellaneous	
Methyl tert-butyl Ether	ND< 12.0

ELAP Number 10958

Method: EPA 8260B

Data File: V52837.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

Signature: _____

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

074598V2.XLS

**Volatile STARS Analysis Report for Soils/Solids/Sludges**Client: **Hazard Evaluations, Inc**

Client Job Site: 500 Seneca

Lab Project Number: 07-4598

Client Job Number: 15210

Lab Sample Number: 15145

Field Location: 500 Gallon Tank (South Wall)

Date Sampled: 12/13/2007

Field ID Number: N/A

Date Received: 12/17/2007

Sample Type: Soil

Date Analyzed: 12/21/2007

Aromatics	Results in ug / Kg
Benzene	ND< 8.32
n-Butylbenzene	ND< 41.6
sec-Butylbenzene	ND< 8.32
tert-Butylbenzene	ND< 20.8
Ethylbenzene	ND< 8.32
n-Propylbenzene	ND< 8.32
Isopropylbenzene	ND< 41.6
p-Isopropyltoluene	ND< 41.6
Naphthalene	ND< 20.8
Toluene	ND< 8.32
1,2,4-Trimethylbenzene	ND< 8.32
1,3,5-Trimethylbenzene	ND< 8.32
m,p-Xylene	9.20
o-Xylene	ND< 8.32
Miscellaneous	
Methyl tert-butyl Ether	ND< 8.32

ELAP Number 10958

Method: EPA 8260B

Data File: V52838.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

Surrogate outliers indicate probable matrix interference

Signature: _____

Bruce Hoogesteger: Technical Director


PARADIGM

ENVIRONMENTAL SERVICES, INC.

3 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile STARS Analysis Report for Soils/Solids/Sludges

 Client: Hazard Evaluations, Inc

Client Job Site: 500 Seneca

Lab Project Number: 07-4598

Lab Sample Number: 15146

Client Job Number: 15210

Field Location: 500 Gallon Tank (West Wall)

Date Sampled: 12/13/2007

Field ID Number: N/A

Date Received: 12/17/2007

Sample Type: Soil

Date Analyzed: 12/21/2007

Aromatics	Results in ug / Kg
Benzene	ND< 11.2
n-Butylbenzene	ND< 56.1
sec-Butylbenzene	ND< 11.2
tert-Butylbenzene	ND< 28.1
Ethylbenzene	ND< 11.2
n-Propylbenzene	ND< 11.2
Isopropylbenzene	ND< 56.1
p-Isopropyltoluene	ND< 56.1
Naphthalene	ND< 28.1
Toluene	ND< 11.2
1,2,4-Trimethylbenzene	ND< 11.2
1,3,5-Trimethylbenzene	ND< 11.2
m,p-Xylene	ND< 11.2
o-Xylene	ND< 11.2
Miscellaneous	
Methyl tert-butyl Ether	ND< 11.2

ELAP Number 10958

Method: EPA 8260B

Data File: V52839.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

Signature:


 Bruce Hoogesteger, Technical Director

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074598V4.XLS

**Volatile STARS Analysis Report for Soils/Solids/Sludges**Client: **Hazard Evaluations, Inc**

Client Job Site: 500 Seneca

Lab Project Number: 07-4598

Client Job Number: 15210

Lab Sample Number: 15147

Field Location: 500 Gallon Tank (East Wall)

Date Sampled: 12/13/2007

Field ID Number: N/A

Date Received: 12/17/2007

Sample Type: Soil

Date Analyzed: 12/21/2007

Aromatics	Results in ug / Kg
Benzene	E 11,700
n-Butylbenzene	408
sec-Butylbenzene	166
tert-Butylbenzene	ND< 90.3
Ethylbenzene	1,610
n-Propylbenzene	1,150
Isopropylbenzene	288
p-Isopropyltoluene	ND< 181
Naphthalene	697
Toluene	1,320
1,2,4-Trimethylbenzene	1,520
1,3,5-Trimethylbenzene	485
m,p-Xylene	2,410
o-Xylene	569
Miscellaneous	
Methyl tert-butyl Ether	ND< 36.1

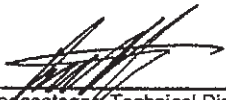
ELAP Number 10958

Method: EPA 8260B

Data File: V52840.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

Signature: 

Bruce Hoogestegge, Technical Director

**Volatile STARS Analysis Report for Soils/Solids/Sludges**Client: **Hazard Evaluations, Inc**

Client Job Site: 500 Seneca

Lab Project Number: 07-4598

Client Job Number: 15210

Lab Sample Number: 15148

Field Location: 500 Gallon Tank (Floor 8')

Date Sampled: 12/13/2007

Field ID Number: N/A

Date Received: 12/17/2007

Sample Type: Soil

Date Analyzed: 12/21/2007

Aromatics	Results in ug / Kg
Benzene	3,320
n-Butylbenzene	ND< 499
sec-Butylbenzene	ND< 99.8
tert-Butylbenzene	ND< 250
Ethylbenzene	ND< 99.8
n-Propylbenzene	ND< 99.8
Isopropylbenzene	ND< 499
p-Isopropyltoluene	ND< 499
Naphthalene	ND< 250
Toluene	ND< 99.8
1,2,4-Trimethylbenzene	ND< 99.8
1,3,5-Trimethylbenzene	ND< 99.8
m,p-Xylene	ND< 99.8
o-Xylene	ND< 99.8
Miscellaneous	
Methyl tert-butyl Ether	ND< 99.8

ELAP Number 10958

Method: EPA 8260B

Data File: V52841.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

Signature: 

Bruce Hoogesteger: Technical Director

**Volatile STARS Analysis Report for Soils/Solids/Sludges**Client: **Hazard Evaluations, Inc**

Client Job Site: 500 Seneca

Lab Project Number: 07-4598

Client Job Number: 15210

Lab Sample Number: 15149

Field Location: Pump Island - Pipe Composite

Date Sampled: 12/13/2007

Field ID Number: N/A

Date Received: 12/17/2007

Sample Type: Soil

Date Analyzed: 12/21/2007

Aromatics	Results in ug / Kg
Benzene	ND< 8.63
n-Butylbenzene	ND< 43.2
sec-Butylbenzene	ND< 8.63
tert-Butylbenzene	ND< 21.6
Ethylbenzene	ND< 8.63
n-Propylbenzene	ND< 8.63
Isopropylbenzene	ND< 43.2
p-Isopropyltoluene	ND< 43.2
Naphthalene	ND< 21.6
Toluene	11.1
1,2,4-Trimethylbenzene	ND< 8.63
1,3,5-Trimethylbenzene	ND< 8.63
m,p-Xylene	9.18
o-Xylene	ND< 8.63
Miscellaneous	
Methyl tert-butyl Ether	ND< 8.63

ELAP Number 10958

Method: EPA 8260B

Data File: V52842.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

Surrogate outliers indicate probable matrix interference

Signature: 

Bruce Hoogesleger, Technical Director

**Volatile STARS Analysis Report for Soils/Solids/Sludges**Client: **Hazard Evaluations, Inc**

Client Job Site: 500 Seneca

Lab Project Number: 07-4598

Client Job Number: 15210

Lab Sample Number: 15150

Field Location: 2000 Gallon Tank (Floor Comp)

Date Sampled: 12/13/2007

Field ID Number: N/A

Date Received: 12/17/2007

Sample Type: Soil

Date Analyzed: 12/21/2007

Aromatics	Results in ug / Kg
Benzene	ND< 6.70
n-Butylbenzene	ND< 33.5
sec-Butylbenzene	ND< 6.70
tert-Butylbenzene	ND< 16.8
Ethylbenzene	ND< 6.70
n-Propylbenzene	ND< 6.70
Isopropylbenzene	ND< 33.5
p-Isopropyltoluene	ND< 33.5
Naphthalene	ND< 16.8
Toluene	ND< 6.70
1,2,4-Trimethylbenzene	ND< 6.70
1,3,5-Trimethylbenzene	ND< 6.70
m,p-Xylene	ND< 6.70
o-Xylene	ND< 6.70
Miscellaneous	
Methyl tert-butyl Ether	ND< 6.70

ELAP Number 10958

Method: EPA 8260B

Data File: V52845.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

Surrogate outliers indicate probable matrix interference

Signature: _____

Bruce Hoogesteger: Technical Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

3 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for TCLP Extract

Client: **Hazard Evaluations, Inc**

Client Job Site: 500 Seneca
Client Job Number: 15210
Field Location: Soil Pile Comp
Field ID Number: N/A
Sample Type: TCLP Extract

Lab Project Number: 07-4598
Lab Sample Number: 15143
Date Sampled: 12/13/2007
Date Received: 12/17/2007
Date Analyzed: 12/21/2007

Aromatic	Results in ug / L	Regulatory Limits in ug / L
Benzene	58.9	500

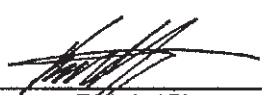
ELAP Number 10958

Method: EPA 8260B

Data File: V52847.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

074598V1.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY: <u>Hazard Evaluations, Inc.</u>	ADDRESS: <u>3836 North Buffalo Road</u>	LAB PROJECT #: <u>07-4548</u>	CLIENT PROJECT #: <u>15210</u>
CITY: <u>Orchard Park</u>	STATE: <u>NY</u>	TURNAROUND TIME: (WORKING DAYS)	
PHONE: <u>716/271-1127</u>	FAX: <u>716/271-1127</u>		
ATTN: <u>Scott Overnuff</u>	ATTN: <u>1</u>	STD ☒ 5	OTHER ☐
COMMENTS: <u>500 Seneca</u>	QUOTE #:		

DATE	TIME	COMPOSITE	GRA B	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	REQUESTED ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1/12/07		X		So.1 Pile Comp.	Soil	1	ICP, Lead, TPH, Flash, 8210 STRAS		15143
2/12/07			X	500 Gallon Tank (North Wall)	Soil	1			15144
3/12/07			X	500 Gallon Tank (South Wall)	Soil	1			15145
4/12/07			X	500 Gallon Tank (West Wall)	Soil	1			15146
5/12/07			X	500 Gallon Tank (East Wall)	Soil	1		Strong Odor	15147
6/12/07			X	500 Gallon Tank (Floor 8')	Soil	1			15148
7/12/07		X		Pump Island - Pipe Composite	Soil	1			15149
8/12/07		X		2000 Gallon Tank (Floor Comp)	Soil	1			15150
9/12/07									
10									

LAB USE ONLY BELOW THIS LINE**

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter		NELAC Compliance	
Comments:	Container Type:	Y ☒	N ☐
Comments:	Preservation:	Y ☒	N ☐
Comments:	Holding Time:	Y ☒	N ☐
Comments:	Temperature: <u>60°C</u>	Y ☒	N ☐

Sampled By: <u>[Signature]</u>	Date/Time: <u>12/12/07</u>	Total Cost:
Relinquished By: <u>[Signature]</u>	Date/Time: <u>12/14/07</u>	
Received By: <u>James A. Stamer</u>	Date/Time: <u>12/14/07 2:00 PM</u>	P.I.F.
Received By: <u>Elizabeth O'Hara</u>	Date/Time: <u>12/17/07 1405</u>	
Received @ Lab By:	Date/Time:	



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project No.: **21.0056365.20**
Work Order No.: **0802-00041**
Date Received: **02/07/2008**
Date Reported: **02/14/2008**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
02/05/2008	Solid	0802-00041 001	SP - 11 6-8ft.
02/05/2008	Solid	0802-00041 002	SP - 12 8-11ft.
02/05/2008	Solid	0802-00041 003	SP - 13 6-8ft.
02/05/2008	Solid	0802-00041 004	SP - 14 6-8ft.
02/05/2008	Solid	0802-00041 005	SP - 14A 6-8ft.
02/05/2008	Solid	0802-00041 006	SP - 15 8-10ft.
02/05/2008	Solid	0802-00041 007	SP - 16 6-8ft.
02/05/2008	Solid	0802-00041 008	SP - 16 8-10ft.
02/05/2008	Solid	0802-00041 009	SP - 17 14-16ft.
02/05/2008	Solid	0802-00041 010	SP - 18 12-15ft.



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **Former New Era**
Project No.: **21.0056365.20**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 02/07/08 via __GZA courier, __x_UPS, __FEDEX, or __hand delivered. The temperature of the __x_temperature blank/ __cooler air, was 3.7 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference.

2. EPA Method 8260 - VOCs

The percent recoveries for the surrogates in the diluted runs are as follows:

SP-11 6-8 ft.: 1,2- Dichloroethane-D4 - 101%, Toluene-D8 - 114%, 4-Bromofluorobenzene - 98.2%
SP-13 6-8 ft.: 1,2- Dichloroethane-D4 - 90.5%, Toluene-D8 - 88.8%, 4-Bromofluorobenzene - 102%
SP-14 6-8 ft.: 1,2- Dichloroethane-D4 - 80.1%, Toluene-D8 - 91.9%, 4-Bromofluorobenzene - 103%
SP-14A 6-8 ft.: 1,2- Dichloroethane-D4 - 98.2%, Toluene-D8 - 116%, 4-Bromofluorobenzene - 98.1%
SP-16 6-8 ft.: 1,2- Dichloroethane-D4 - 89.0%, Toluene-D8 - 91.8%, 4-Bromofluorobenzene - 99.9%
SP-16 8-10 ft.: 1,2- Dichloroethane-D4 - 90.0%, Toluene-D8 - 97.34%, 4-Bromofluorobenzene - 97.7%

Attach QC 8260 02/12/08 S - Solid
Attach QC 8260 02/13/08 S - Solid



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Page 3 of 23

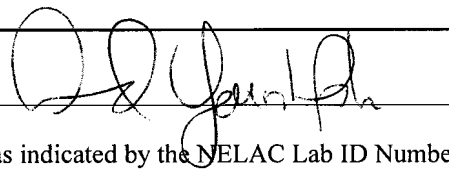
ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor

Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **Former New Era**
Project No.: **21.0056365.20**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

Data Authorized By: 

NELAC certification, as indicated by the NELAC Lab ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:

% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
CF = Calculation Factor
DO = Diluted Out

Method Key:

Method 8260: The current version of the method is 8260B.
Method 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
Method 6010: The current version of the method is 6010B.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **Former New Era**
Project No.: **21.0056365.20**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

Sample ID: **SP - 11 6-8ft.**

Sample No.: **001**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		81.9	%	TAJ	02/08/2008
VOLATILE ORGANICS	EPA 8260			MQS	02/12/2008
Dichlorodifluoromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Chloromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Vinyl Chloride	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromomethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Chloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Trichlorofluoromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Diethylether	EPA 8260	<280	ug/kg	MQS	02/12/2008
Acetone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
1,1-Dichloroethene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Dichloromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<55	ug/kg	MQS	02/12/2008
trans-1,2-Dichloroethene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1-Dichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
2-Butanone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
2,2-Dichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008
cis-1,2-Dichloroethene	EPA 8260	580	ug/kg	MQS	02/12/2008
Chloroform	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromochloromethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Tetrahydrofuran	EPA 8260	<550	ug/kg	MQS	02/12/2008
1,1,1-Trichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1-Dichloropropene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Carbon Tetrachloride	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Benzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Trichloroethene	EPA 8260	6000	ug/kg	MQS	02/12/2008
1,2-Dichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromodichloromethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Dibromomethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
4-Methyl-2-Pentanone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
cis-1,3-Dichloropropene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Toluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
trans-1,3-Dichloropropene	EPA 8260	<110	ug/kg	MQS	02/12/2008
1,1,2-Trichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
2-Hexanone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
1,3-Dichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **Former New Era**
Project No.: **21.0056365.20**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

Sample ID: **SP - 11 6-8ft.**
Sample Date: **02/05/2008**

Sample No.: **001**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	260000	ug/kg	MQS	02/13/2008
Dibromochloromethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dibromoethane (EDB)	EPA 8260	<110	ug/kg	MQS	02/12/2008
Chlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Ethylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
m&p-Xylene	EPA 8260	<110	ug/kg	MQS	02/12/2008
o-Xylene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Styrene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromoform	EPA 8260	<110	ug/kg	MQS	02/12/2008
Isopropylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2,3-Trichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
n-Propylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
2-Chlorotoluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,3,5-Trimethylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
4-Chlorotoluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
tert-Butylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2,4-Trimethylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
sec-Butylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
p-Isopropyltoluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,3-Dichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,4-Dichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
n-Butylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<280	ug/kg	MQS	02/12/2008
1,2,4-Trichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Hexachlorobutadiene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Naphthalene	EPA 8260	<110	ug/kg	MQS	02/12/2008
1,2,3-Trichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	99.0	% R	MQS	02/12/2008
***Toluene-D8	EPA 8260	117	% R	MQS	02/12/2008
***4-Bromofluorobenzene	EPA 8260	101	% R	MQS	02/12/2008
Preparation	EPA 5035	11	CF	MQS	02/12/2008



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Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

Sample ID: **SP - 12 8-11ft.**

Sample No.: **002**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		87.3	%	TAJ	02/08/2008
VOLATILE ORGANICS	EPA 8260			MQS	02/12/2008
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	02/12/2008
Chloromethane	EPA 8260	<100	ug/kg	MQS	02/12/2008
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	02/12/2008
Bromomethane	EPA 8260	<100	ug/kg	MQS	02/12/2008
Chloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	02/12/2008
Diethylether	EPA 8260	<250	ug/kg	MQS	02/12/2008
Acetone	EPA 8260	<1300	ug/kg	MQS	02/12/2008
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Dichloromethane	EPA 8260	<100	ug/kg	MQS	02/12/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	02/12/2008
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
2-Butanone	EPA 8260	<1300	ug/kg	MQS	02/12/2008
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/12/2008
cis-1,2-Dichloroethene	EPA 8260	100	ug/kg	MQS	02/12/2008
Chloroform	EPA 8260	<50	ug/kg	MQS	02/12/2008
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Tetrahydrofuran	EPA 8260	<500	ug/kg	MQS	02/12/2008
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Benzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Trichloroethene	EPA 8260	1500	ug/kg	MQS	02/12/2008
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Dibromomethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
4-Methyl-2-Pentanone	EPA 8260	<1300	ug/kg	MQS	02/12/2008
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Toluene	EPA 8260	<50	ug/kg	MQS	02/12/2008
trans-1,3-Dichloropropene	EPA 8260	<100	ug/kg	MQS	02/12/2008
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
2-Hexanone	EPA 8260	<1300	ug/kg	MQS	02/12/2008
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/12/2008



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Work Order No.: **0802-00041**

Sample ID: **SP - 12 8-11ft.**

Sample No.: **002**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	5800	ug/kg	MQS	02/12/2008
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	02/12/2008
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
m&p-Xylene	EPA 8260	<100	ug/kg	MQS	02/12/2008
o-Xylene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Styrene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Bromoform	EPA 8260	<100	ug/kg	MQS	02/12/2008
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Bromobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	02/12/2008
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
p-Isopropyltoluene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	02/12/2008
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Naphthalene	EPA 8260	<100	ug/kg	MQS	02/12/2008
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	99.3	% R	MQS	02/12/2008
***Toluene-D8	EPA 8260	114	% R	MQS	02/12/2008
***4-Bromofluorobenzene	EPA 8260	99.0	% R	MQS	02/12/2008
Preparation	EPA 5035	10	CF	MQS	02/12/2008



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Work Order No.: **0802-00041**

Sample ID: **SP - 13 6-8ft.**
Sample Date: **02/05/2008**

Sample No.: **003**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		80.9	%	TAJ	02/08/2008
VOLATILE ORGANICS	EPA 8260			MQS	02/12/2008
Dichlorodifluoromethane	EPA 8260	<120	ug/kg	MQS	02/12/2008
Chloromethane	EPA 8260	<120	ug/kg	MQS	02/12/2008
Vinyl Chloride	EPA 8260	<60	ug/kg	MQS	02/12/2008
Bromomethane	EPA 8260	<120	ug/kg	MQS	02/12/2008
Chloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Trichlorofluoromethane	EPA 8260	<120	ug/kg	MQS	02/12/2008
Diethylether	EPA 8260	<300	ug/kg	MQS	02/12/2008
Acetone	EPA 8260	<1600	ug/kg	MQS	02/12/2008
1,1-Dichloroethene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Dichloromethane	EPA 8260	<120	ug/kg	MQS	02/12/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<60	ug/kg	MQS	02/12/2008
trans-1,2-Dichloroethene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,1-Dichloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
2-Butanone	EPA 8260	<1600	ug/kg	MQS	02/12/2008
2,2-Dichloropropane	EPA 8260	<60	ug/kg	MQS	02/12/2008
cis-1,2-Dichloroethene	EPA 8260	610	ug/kg	MQS	02/12/2008
Chloroform	EPA 8260	<60	ug/kg	MQS	02/12/2008
Bromochloromethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Tetrahydrofuran	EPA 8260	<600	ug/kg	MQS	02/12/2008
1,1,1-Trichloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,1-Dichloropropene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Carbon Tetrachloride	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2-Dichloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Benzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Trichloroethene	EPA 8260	2100	ug/kg	MQS	02/12/2008
1,2-Dichloropropane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Bromodichloromethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Dibromomethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
4-Methyl-2-Pentanone	EPA 8260	<1600	ug/kg	MQS	02/12/2008
cis-1,3-Dichloropropene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Toluene	EPA 8260	<60	ug/kg	MQS	02/12/2008
trans-1,3-Dichloropropene	EPA 8260	<120	ug/kg	MQS	02/12/2008
1,1,2-Trichloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
2-Hexanone	EPA 8260	<1600	ug/kg	MQS	02/12/2008
1,3-Dichloropropane	EPA 8260	<60	ug/kg	MQS	02/12/2008



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Work Order No.: **0802-00041**

Sample ID: **SP - 13 6-8ft.**

Sample No.: **003**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	21000	ug/kg	MQS	02/13/2008
Dibromochloromethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2-Dibromoethane (EDB)	EPA 8260	<120	ug/kg	MQS	02/12/2008
Chlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Ethylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
m&p-Xylene	EPA 8260	<120	ug/kg	MQS	02/12/2008
o-Xylene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Styrene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Bromoform	EPA 8260	<120	ug/kg	MQS	02/12/2008
Isopropylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2,3-Trichloropropane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Bromobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
n-Propylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
2-Chlorotoluene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,3,5-Trimethylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
4-Chlorotoluene	EPA 8260	<60	ug/kg	MQS	02/12/2008
tert-Butylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2,4-Trimethylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
sec-Butylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
p-Isopropyltoluene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,3-Dichlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,4-Dichlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
n-Butylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2-Dichlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<300	ug/kg	MQS	02/12/2008
1,2,4-Trichlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Hexachlorobutadiene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Naphthalene	EPA 8260	<120	ug/kg	MQS	02/12/2008
1,2,3-Trichlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	96.9	% R	MQS	02/12/2008
***Toluene-D8	EPA 8260	118	% R	MQS	02/12/2008
***4-Bromofluorobenzene	EPA 8260	99.0	% R	MQS	02/12/2008
Preparation	EPA 5035	12	CF	MQS	02/12/2008



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Work Order No.: **0802-00041**

Sample ID: **SP - 14 6-8ft.**

Sample No.: **004**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		85.0	%	TAJ	02/08/2008
VOLATILE ORGANICS	EPA 8260			MQS	02/12/2008
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	02/12/2008
Chloromethane	EPA 8260	<100	ug/kg	MQS	02/12/2008
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	02/12/2008
Bromomethane	EPA 8260	<100	ug/kg	MQS	02/12/2008
Chloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	02/12/2008
Diethylether	EPA 8260	<250	ug/kg	MQS	02/12/2008
Acetone	EPA 8260	<1300	ug/kg	MQS	02/12/2008
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Dichloromethane	EPA 8260	<100	ug/kg	MQS	02/12/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	02/12/2008
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
2-Butanone	EPA 8260	<1300	ug/kg	MQS	02/12/2008
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/12/2008
cis-1,2-Dichloroethene	EPA 8260	410	ug/kg	MQS	02/12/2008
Chloroform	EPA 8260	<50	ug/kg	MQS	02/12/2008
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Tetrahydrofuran	EPA 8260	<500	ug/kg	MQS	02/12/2008
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Benzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Trichloroethene	EPA 8260	2600	ug/kg	MQS	02/12/2008
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Dibromomethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
4-Methyl-2-Pentanone	EPA 8260	<1300	ug/kg	MQS	02/12/2008
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Toluene	EPA 8260	<50	ug/kg	MQS	02/12/2008
trans-1,3-Dichloropropene	EPA 8260	<100	ug/kg	MQS	02/12/2008
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
2-Hexanone	EPA 8260	<1300	ug/kg	MQS	02/12/2008
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/12/2008



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Sample ID: **SP - 14 6-8ft.**

Sample No.: **004**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	30000	ug/kg	MQS	02/13/2008
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	02/12/2008
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
m&p-Xylene	EPA 8260	<100	ug/kg	MQS	02/12/2008
o-Xylene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Styrene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Bromoform	EPA 8260	<100	ug/kg	MQS	02/12/2008
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	02/12/2008
Bromobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	02/12/2008
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
p-Isopropyltoluene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	02/12/2008
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Naphthalene	EPA 8260	<100	ug/kg	MQS	02/12/2008
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/12/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	83.1	% R	MQS	02/12/2008
***Toluene-D8	EPA 8260	93.6	% R	MQS	02/12/2008
***4-Bromofluorobenzene	EPA 8260	101	% R	MQS	02/12/2008
Preparation	EPA 5035	10	CF	MQS	02/12/2008



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
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Michelle Wittman

Project Name.: **Former New Era**
Project No.: **21.0056365.20**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

Sample ID: **SP - 14A 6-8ft.**

Sample No.: **005**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		84.1	%	TAJ	02/08/2008
VOLATILE ORGANICS	EPA 8260			MQS	02/12/2008
Dichlorodifluoromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Chloromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Vinyl Chloride	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromomethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Chloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Trichlorofluoromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Diethylether	EPA 8260	<280	ug/kg	MQS	02/12/2008
Acetone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
1,1-Dichloroethene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Dichloromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<55	ug/kg	MQS	02/12/2008
trans-1,2-Dichloroethene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1-Dichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
2-Butanone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
2,2-Dichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008
cis-1,2-Dichloroethene	EPA 8260	550	ug/kg	MQS	02/12/2008
Chloroform	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromochloromethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Tetrahydrofuran	EPA 8260	<550	ug/kg	MQS	02/12/2008
1,1,1-Trichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1-Dichloropropene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Carbon Tetrachloride	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Benzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Trichloroethene	EPA 8260	3400	ug/kg	MQS	02/12/2008
1,2-Dichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromodichloromethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Dibromomethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
4-Methyl-2-Pentanone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
cis-1,3-Dichloropropene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Toluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
trans-1,3-Dichloropropene	EPA 8260	<110	ug/kg	MQS	02/12/2008
1,1,2-Trichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
2-Hexanone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
1,3-Dichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008



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Work Order No.: **0802-00041**

Sample ID: **SP - 14A 6-8ft.**

Sample No.: **005**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	30000	ug/kg	MQS	02/13/2008
Dibromochloromethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dibromoethane (EDB)	EPA 8260	<110	ug/kg	MQS	02/12/2008
Chlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Ethylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
m&p-Xylene	EPA 8260	<110	ug/kg	MQS	02/12/2008
o-Xylene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Styrene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromoform	EPA 8260	<110	ug/kg	MQS	02/12/2008
Isopropylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2,3-Trichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
n-Propylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
2-Chlorotoluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,3,5-Trimethylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
4-Chlorotoluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
tert-Butylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2,4-Trimethylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
sec-Butylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
p-Isopropyltoluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,3-Dichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,4-Dichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
n-Butylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<280	ug/kg	MQS	02/12/2008
1,2,4-Trichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Hexachlorobutadiene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Naphthalene	EPA 8260	<110	ug/kg	MQS	02/12/2008
1,2,3-Trichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	94.1	% R	MQS	02/12/2008
***Toluene-D8	EPA 8260	112	% R	MQS	02/12/2008
***4-Bromofluorobenzene	EPA 8260	98.2	% R	MQS	02/12/2008
Preparation	EPA 5035	11	CF	MQS	02/12/2008



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Work Order No.: **0802-00041**

Sample ID: **SP - 15 8-10ft.**

Sample No.: **006**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		78.3	%	TAJ	02/08/2008
VOLATILE ORGANICS	EPA 8260			MQS	02/12/2008
Dichlorodifluoromethane	EPA 8260	<120	ug/kg	MQS	02/12/2008
Chloromethane	EPA 8260	<120	ug/kg	MQS	02/12/2008
Vinyl Chloride	EPA 8260	<60	ug/kg	MQS	02/12/2008
Bromomethane	EPA 8260	<120	ug/kg	MQS	02/12/2008
Chloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Trichlorofluoromethane	EPA 8260	<120	ug/kg	MQS	02/12/2008
Diethylether	EPA 8260	<300	ug/kg	MQS	02/12/2008
Acetone	EPA 8260	<1600	ug/kg	MQS	02/12/2008
1,1-Dichloroethene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Dichloromethane	EPA 8260	<120	ug/kg	MQS	02/12/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<60	ug/kg	MQS	02/12/2008
trans-1,2-Dichloroethene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,1-Dichloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
2-Butanone	EPA 8260	<1600	ug/kg	MQS	02/12/2008
2,2-Dichloropropane	EPA 8260	<60	ug/kg	MQS	02/12/2008
cis-1,2-Dichloroethene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Chloroform	EPA 8260	<60	ug/kg	MQS	02/12/2008
Bromochloromethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Tetrahydrofuran	EPA 8260	<600	ug/kg	MQS	02/12/2008
1,1,1-Trichloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,1-Dichloropropene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Carbon Tetrachloride	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2-Dichloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Benzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Trichloroethene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2-Dichloropropane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Bromodichloromethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Dibromomethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
4-Methyl-2-Pentanone	EPA 8260	<1600	ug/kg	MQS	02/12/2008
cis-1,3-Dichloropropene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Toluene	EPA 8260	<60	ug/kg	MQS	02/12/2008
trans-1,3-Dichloropropene	EPA 8260	<120	ug/kg	MQS	02/12/2008
1,1,2-Trichloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
2-Hexanone	EPA 8260	<1600	ug/kg	MQS	02/12/2008
1,3-Dichloropropane	EPA 8260	<60	ug/kg	MQS	02/12/2008



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Work Order No.: **0802-00041**

Sample ID: **SP - 15 8-10ft.**

Sample No.: **006**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	640	ug/kg	MQS	02/13/2008
Dibromochloromethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2-Dibromoethane (EDB)	EPA 8260	<120	ug/kg	MQS	02/12/2008
Chlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Ethylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
m&p-Xylene	EPA 8260	<120	ug/kg	MQS	02/12/2008
o-Xylene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Styrene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Bromoform	EPA 8260	<120	ug/kg	MQS	02/12/2008
Isopropylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2,3-Trichloropropane	EPA 8260	<60	ug/kg	MQS	02/12/2008
Bromobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
n-Propylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
2-Chlorotoluene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,3,5-Trimethylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
4-Chlorotoluene	EPA 8260	<60	ug/kg	MQS	02/12/2008
tert-Butylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2,4-Trimethylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
sec-Butylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
p-Isopropyltoluene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,3-Dichlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,4-Dichlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
n-Butylbenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2-Dichlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<300	ug/kg	MQS	02/12/2008
1,2,4-Trichlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Hexachlorobutadiene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Naphthalene	EPA 8260	<120	ug/kg	MQS	02/12/2008
1,2,3-Trichlorobenzene	EPA 8260	<60	ug/kg	MQS	02/12/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	79.0	% R	MQS	02/12/2008
***Toluene-D8	EPA 8260	94.6	% R	MQS	02/12/2008
***4-Bromofluorobenzene	EPA 8260	102	% R	MQS	02/12/2008
Preparation	EPA 5035	12	CF	MQS	02/12/2008



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Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

Sample ID: **SP - 16 6-8ft.**

Sample No.: **007**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		81.8	%	TAJ	02/08/2008
VOLATILE ORGANICS	EPA 8260			MQS	02/12/2008
Dichlorodifluoromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Chloromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Vinyl Chloride	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromomethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Chloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Trichlorofluoromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Diethylether	EPA 8260	<280	ug/kg	MQS	02/12/2008
Acetone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
1,1-Dichloroethene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Dichloromethane	EPA 8260	<110	ug/kg	MQS	02/12/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<55	ug/kg	MQS	02/12/2008
trans-1,2-Dichloroethene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1-Dichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
2-Butanone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
2,2-Dichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008
cis-1,2-Dichloroethene	EPA 8260	1600	ug/kg	MQS	02/12/2008
Chloroform	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromochloromethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Tetrahydrofuran	EPA 8260	<550	ug/kg	MQS	02/12/2008
1,1,1-Trichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1-Dichloropropene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Carbon Tetrachloride	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Benzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Trichloroethene	EPA 8260	5100	ug/kg	MQS	02/12/2008
1,2-Dichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromodichloromethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Dibromomethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
4-Methyl-2-Pentanone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
cis-1,3-Dichloropropene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Toluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
trans-1,3-Dichloropropene	EPA 8260	<110	ug/kg	MQS	02/12/2008
1,1,2-Trichloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
2-Hexanone	EPA 8260	<1400	ug/kg	MQS	02/12/2008
1,3-Dichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008



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Work Order No.: **0802-00041**

Sample ID: **SP - 16 6-8ft.**

Sample No.: **007**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	150000	ug/kg	MQS	02/13/2008
Dibromochloromethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dibromoethane (EDB)	EPA 8260	<110	ug/kg	MQS	02/12/2008
Chlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Ethylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
m&p-Xylene	EPA 8260	<110	ug/kg	MQS	02/12/2008
o-Xylene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Styrene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromoform	EPA 8260	<110	ug/kg	MQS	02/12/2008
Isopropylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2,3-Trichloropropane	EPA 8260	<55	ug/kg	MQS	02/12/2008
Bromobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
n-Propylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
2-Chlorotoluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,3,5-Trimethylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
4-Chlorotoluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
tert-Butylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2,4-Trimethylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
sec-Butylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
p-Isopropyltoluene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,3-Dichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,4-Dichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
n-Butylbenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<280	ug/kg	MQS	02/12/2008
1,2,4-Trichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Hexachlorobutadiene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Naphthalene	EPA 8260	<110	ug/kg	MQS	02/12/2008
1,2,3-Trichlorobenzene	EPA 8260	<55	ug/kg	MQS	02/12/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	89.0	% R	MQS	02/12/2008
***Toluene-D8	EPA 8260	96.2	% R	MQS	02/12/2008
***4-Bromofluorobenzene	EPA 8260	100	% R	MQS	02/12/2008
Preparation	EPA 5035	11	CF	MQS	02/12/2008



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **Former New Era**
Project No.: **21.0056365.20**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

Sample ID: **SP - 16 8-10ft.**

Sample No.: **008**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		80.3	%	TAJ	02/08/2008
VOLATILE ORGANICS	EPA 8260			MQS	02/13/2008
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	02/13/2008
Chloromethane	EPA 8260	<100	ug/kg	MQS	02/13/2008
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	02/13/2008
Bromomethane	EPA 8260	<100	ug/kg	MQS	02/13/2008
Chloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	02/13/2008
Diethylether	EPA 8260	<250	ug/kg	MQS	02/13/2008
Acetone	EPA 8260	<1300	ug/kg	MQS	02/13/2008
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Dichloromethane	EPA 8260	<100	ug/kg	MQS	02/13/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	02/13/2008
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
2-Butanone	EPA 8260	<1300	ug/kg	MQS	02/13/2008
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/13/2008
cis-1,2-Dichloroethene	EPA 8260	1300	ug/kg	MQS	02/13/2008
Chloroform	EPA 8260	<50	ug/kg	MQS	02/13/2008
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Tetrahydrofuran	EPA 8260	<500	ug/kg	MQS	02/13/2008
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Benzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Trichloroethene	EPA 8260	4700	ug/kg	MQS	02/13/2008
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Dibromomethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
4-Methyl-2-Pentanone	EPA 8260	<1300	ug/kg	MQS	02/13/2008
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Toluene	EPA 8260	<50	ug/kg	MQS	02/13/2008
trans-1,3-Dichloropropene	EPA 8260	<100	ug/kg	MQS	02/13/2008
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
2-Hexanone	EPA 8260	<1300	ug/kg	MQS	02/13/2008
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/13/2008



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Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

Sample ID: **SP - 16 8-10ft.**

Sample No.: **008**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	130000	ug/kg	MQS	02/13/2008
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	02/13/2008
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
m&p-Xylene	EPA 8260	<100	ug/kg	MQS	02/13/2008
o-Xylene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Styrene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Bromoform	EPA 8260	<100	ug/kg	MQS	02/13/2008
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Bromobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	02/13/2008
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
p-Isopropyltoluene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	02/13/2008
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Naphthalene	EPA 8260	<100	ug/kg	MQS	02/13/2008
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	94.2	% R	MQS	02/13/2008
***Toluene-D8	EPA 8260	120	% R	MQS	02/13/2008
***4-Bromofluorobenzene	EPA 8260	99.3	% R	MQS	02/13/2008
Preparation	EPA 5035	10	CF	MQS	02/12/2008



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Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

Sample ID: **SP - 17 14-16ft.**
Sample Date: **02/05/2008**

Sample No.: **009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		78.4	%	TAJ	02/08/2008
VOLATILE ORGANICS	EPA 8260			MQS	02/13/2008
Dichlorodifluoromethane	EPA 8260	<130	ug/kg	MQS	02/13/2008
Chloromethane	EPA 8260	<130	ug/kg	MQS	02/13/2008
Vinyl Chloride	EPA 8260	<65	ug/kg	MQS	02/13/2008
Bromomethane	EPA 8260	<130	ug/kg	MQS	02/13/2008
Chloroethane	EPA 8260	<65	ug/kg	MQS	02/13/2008
Trichlorofluoromethane	EPA 8260	<130	ug/kg	MQS	02/13/2008
Diethylether	EPA 8260	<330	ug/kg	MQS	02/13/2008
Acetone	EPA 8260	<1700	ug/kg	MQS	02/13/2008
1,1-Dichloroethene	EPA 8260	<65	ug/kg	MQS	02/13/2008
Dichloromethane	EPA 8260	<130	ug/kg	MQS	02/13/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<65	ug/kg	MQS	02/13/2008
trans-1,2-Dichloroethene	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,1-Dichloroethane	EPA 8260	<65	ug/kg	MQS	02/13/2008
2-Butanone	EPA 8260	<1700	ug/kg	MQS	02/13/2008
2,2-Dichloropropane	EPA 8260	<65	ug/kg	MQS	02/13/2008
cis-1,2-Dichloroethene	EPA 8260	260	ug/kg	MQS	02/13/2008
Chloroform	EPA 8260	<65	ug/kg	MQS	02/13/2008
Bromochloromethane	EPA 8260	<65	ug/kg	MQS	02/13/2008
Tetrahydrofuran	EPA 8260	<650	ug/kg	MQS	02/13/2008
1,1,1-Trichloroethane	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,1-Dichloropropene	EPA 8260	<65	ug/kg	MQS	02/13/2008
Carbon Tetrachloride	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,2-Dichloroethane	EPA 8260	<65	ug/kg	MQS	02/13/2008
Benzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
Trichloroethene	EPA 8260	110	ug/kg	MQS	02/13/2008
1,2-Dichloropropane	EPA 8260	<65	ug/kg	MQS	02/13/2008
Bromodichloromethane	EPA 8260	<65	ug/kg	MQS	02/13/2008
Dibromomethane	EPA 8260	<65	ug/kg	MQS	02/13/2008
4-Methyl-2-Pentanone	EPA 8260	<1700	ug/kg	MQS	02/13/2008
cis-1,3-Dichloropropene	EPA 8260	<65	ug/kg	MQS	02/13/2008
Toluene	EPA 8260	<65	ug/kg	MQS	02/13/2008
trans-1,3-Dichloropropene	EPA 8260	<130	ug/kg	MQS	02/13/2008
1,1,2-Trichloroethane	EPA 8260	<65	ug/kg	MQS	02/13/2008
2-Hexanone	EPA 8260	<1700	ug/kg	MQS	02/13/2008
1,3-Dichloropropane	EPA 8260	<65	ug/kg	MQS	02/13/2008



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Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

Sample ID: **SP - 17 14-16ft.**

Sample No.: **009**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	<65	ug/kg	MQS	02/13/2008
Dibromochloromethane	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,2-Dibromoethane (EDB)	EPA 8260	<130	ug/kg	MQS	02/13/2008
Chlorobenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<65	ug/kg	MQS	02/13/2008
Ethylbenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
m&p-Xylene	EPA 8260	<130	ug/kg	MQS	02/13/2008
o-Xylene	EPA 8260	<65	ug/kg	MQS	02/13/2008
Styrene	EPA 8260	<65	ug/kg	MQS	02/13/2008
Bromoform	EPA 8260	<130	ug/kg	MQS	02/13/2008
Isopropylbenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,2,3-Trichloropropane	EPA 8260	<65	ug/kg	MQS	02/13/2008
Bromobenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
n-Propylbenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
2-Chlorotoluene	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,3,5-Trimethylbenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
4-Chlorotoluene	EPA 8260	<65	ug/kg	MQS	02/13/2008
tert-Butylbenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,2,4-Trimethylbenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
sec-Butylbenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
p-Isopropyltoluene	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,3-Dichlorobenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,4-Dichlorobenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
n-Butylbenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,2-Dichlorobenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<330	ug/kg	MQS	02/13/2008
1,2,4-Trichlorobenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
Hexachlorobutadiene	EPA 8260	<65	ug/kg	MQS	02/13/2008
Naphthalene	EPA 8260	<130	ug/kg	MQS	02/13/2008
1,2,3-Trichlorobenzene	EPA 8260	<65	ug/kg	MQS	02/13/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	90.7	% R	MQS	02/13/2008
***Toluene-D8	EPA 8260	115	% R	MQS	02/13/2008
***4-Bromofluorobenzene	EPA 8260	97.4	% R	MQS	02/13/2008
Preparation	EPA 5035	13	CF	MQS	02/12/2008



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Date Reported: **02/14/2008**
Work Order No.: **0802-00041**

Sample ID: **SP - 18 12-15ft.**

Sample No.: **010**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		79.6	%	TAJ	02/08/2008
VOLATILE ORGANICS	EPA 8260			MQS	02/13/2008
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	02/13/2008
Chloromethane	EPA 8260	<100	ug/kg	MQS	02/13/2008
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	02/13/2008
Bromomethane	EPA 8260	<100	ug/kg	MQS	02/13/2008
Chloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	02/13/2008
Diethylether	EPA 8260	<250	ug/kg	MQS	02/13/2008
Acetone	EPA 8260	<1300	ug/kg	MQS	02/13/2008
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Dichloromethane	EPA 8260	<100	ug/kg	MQS	02/13/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	02/13/2008
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
2-Butanone	EPA 8260	<1300	ug/kg	MQS	02/13/2008
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/13/2008
cis-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Chloroform	EPA 8260	<50	ug/kg	MQS	02/13/2008
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Tetrahydrofuran	EPA 8260	<500	ug/kg	MQS	02/13/2008
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Benzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Trichloroethene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Dibromomethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
4-Methyl-2-Pentanone	EPA 8260	<1300	ug/kg	MQS	02/13/2008
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Toluene	EPA 8260	<50	ug/kg	MQS	02/13/2008
trans-1,3-Dichloropropene	EPA 8260	<100	ug/kg	MQS	02/13/2008
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
2-Hexanone	EPA 8260	<1300	ug/kg	MQS	02/13/2008
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	02/13/2008



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Sample ID: **SP - 18 12-15ft.**
Sample Date: **02/05/2008**

Sample No.: **010**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	02/13/2008
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
m&p-Xylene	EPA 8260	<100	ug/kg	MQS	02/13/2008
o-Xylene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Styrene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Bromoform	EPA 8260	<100	ug/kg	MQS	02/13/2008
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	02/13/2008
Bromobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	02/13/2008
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
p-Isopropyltoluene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	02/13/2008
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Naphthalene	EPA 8260	<100	ug/kg	MQS	02/13/2008
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	02/13/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	77.0	% R	MQS	02/13/2008
***Toluene-D8	EPA 8260	98.7	% R	MQS	02/13/2008
***4-Bromofluorobenzene	EPA 8260	97.5	% R	MQS	02/13/2008
Preparation	EPA 5035	10	CF	MQS	02/12/2008

EPA Method 8260 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	2/12/2008	
Volatile Organics	Conc. ug/kg	Acceptance Limit
dichlorodifluoromethane	< 100	< 100
chloromethane	< 100	< 100
vinyl chloride	< 50	< 50
bromomethane	< 100	< 100
chloroethane	< 50	< 50
trichlorofluoromethane	< 100	< 100
diethyl ether	< 250	< 250
acrolein	< 1300	< 1300
acetone	< 1300	< 1300
1,1-dichloroethene	< 50	< 50
FREON-113	< 100	< 100
iodomethane	< 50	< 50
carbon disulfide	< 500	< 500
dichloromethane	< 100	< 100
tert-butyl alcohol (TBA)	< 1300	< 1300
acrylonitrile	< 50	< 50
methyl-tert-butyl-ether	< 50	< 50
trans-1,2-dichloroethene	< 50	< 50
1,1-dichloroethane	< 50	< 50
di-isopropyl ether (DIPE)	< 100	< 100
ethyl tert-butyl ether (ETBE)	< 100	< 100
vinyl acetate	< 1300	< 1300
2-butanone	< 1300	< 1300
2,2-dichloropropane	< 50	< 50
cis-1,2-dichloroethene	< 50	< 50
chloroform	< 50	< 50
bromochloromethane	< 50	< 50
tetrahydrofuran	< 500	< 500
1,1,1-trichloroethane	< 50	< 50
1,1-dichloropropene	< 50	< 50
carbon tetrachloride	< 50	< 50
1,2-dichloroethane	< 50	< 50
benzene	< 50	< 50
tert-amyl methyl ether (TAME)	< 100	< 100
trichloroethene	< 50	< 50
1,2-dichloropropane	< 50	< 50
bromodichloromethane	< 50	< 50
1,4-Dioxane	< 5000	< 5000
1,2-dibromomethane	< 50	< 50
4-methyl-2-pentanone	< 1300	< 1300
cis-1,3-dichloropropene	< 50	< 50
toluene	< 50	< 50
trans-1,3-dichloropropene	< 100	< 100
1,1,2-trichloroethane	< 50	< 50
2-hexanone	< 1300	< 1300
1,3-dichloropropane	< 50	< 50
tetrachloroethene	< 50	< 50
1,2-dibromochloromethane	< 50	< 50
1,2-dibromoethane (EDB)	< 100	< 100
chlorobenzene	< 50	< 50
1,1,1,2-tetrachloroethane	< 50	< 50
ethylbenzene	< 50	< 50
1,1,2,2-tetrachloroethane	< 50	< 50
m&p-xylene	< 100	< 100
o-xylene	< 50	< 50
styrene	< 50	< 50
bromofom	< 100	< 100
isopropylbenzene	< 50	< 50
1,2,3-trichloropropane	< 50	< 50
bromobenzene	< 50	< 50
n-propylbenzene	< 50	< 50
2-chlorotoluene	< 50	< 50
1,3,5-trimethylbenzene	< 50	< 50
trans-1,4-dichloro-2-butene	< 100	< 100
4-chlorotoluene	< 50	< 50
tert-butyl-benzene	< 50	< 50
1,2,4-trimethylbenzene	< 50	< 50
sec-butyl-benzene	< 50	< 50
p-isopropyltoluene	< 50	< 50
1,3-dichlorobenzene	< 50	< 50
1,4-dichlorobenzene	< 50	< 50
n-butylbenzene	< 50	< 50
1,2-dichlorobenzene	< 50	< 50
1,2-dibromo-3-chloropropane	< 250	< 250
1,2,4-trichlorobenzene	< 50	< 50
hexachlorobutadiene	< 50	< 50
naphthalene	< 100	< 100
1,2,3-trichlorobenzene	< 50	< 50

Laboratory Control Sample

Date Analyzed:	2/12/2008		
Spike Concentration = 2500ug/kg	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	81.4	70-130	ok
chloromethane	76.2	70-130	ok
vinyl chloride	81.1	70-130	ok
bromomethane	64.0	70-130	out
chloroethane	52.4	70-130	out
trichlorofluoromethane	79.9	70-130	ok
diethyl ether	78.6	70-130	ok
acrolein	75.4	70-130	ok
acetone	78.4	70-130	ok
1,1-dichloroethene	80.4	70-130	ok
FREON-113	83.9	70-130	ok
iodomethane	84.0	70-130	ok
carbon disulfide	76.4	70-130	ok
dichloromethane	74.3	70-130	ok
tert-butyl alcohol (TBA)	77.4	70-130	ok
acrylonitrile	79.3	70-130	ok
methyl-tert-butyl-ether	81.8	70-130	ok
trans-1,2-dichloroethene	84.5	70-130	ok
1,1-dichloroethane	80.5	70-130	ok
di-isopropyl ether (DIPE)	74.7	70-130	ok
ethyl tert-butyl ether (ETBE)	84.1	70-130	ok
vinyl acetate	74.8	70-130	ok
2-butanone	86.6	70-130	ok
2,2-dichloropropane	80.1	70-130	ok
cis-1,2-dichloroethene	84.2	70-130	ok
chloroform	79.4	70-130	ok
bromochloromethane	93.1	70-130	ok
tetrahydrofuran	94.0	70-130	ok
1,1,1-trichloroethane	82.2	70-130	ok
1,1-dichloropropene	80.0	70-130	ok
carbon tetrachloride	88.1	70-130	ok
1,2-dichloroethane	89.8	70-130	ok
benzene	92.5	70-130	ok
tert-amyl methyl ether (TAME)	102	70-130	ok
trichloroethene	106	70-130	ok
1,2-dichloropropane	84.3	70-130	ok
bromodichloromethane	79.7	70-130	ok
1,4-Dioxane	90.6	70-130	ok
1,2-dibromomethane	98.3	70-130	ok
4-methyl-2-pentanone	80.6	70-130	ok
cis-1,3-dichloropropene	82.8	70-130	ok
toluene	83.6	70-130	ok
trans-1,3-dichloropropene	77.5	70-130	ok
1,1,2-trichloroethane	99.0	70-130	ok
2-hexanone	88.9	70-130	ok
1,3-dichloropropane	95.9	70-130	ok
tetrachloroethene	104	70-130	ok
1,2-dibromochloromethane	104	70-130	ok
1,2-dibromoethane (EDB)	105	70-130	ok
chlorobenzene	100	70-130	ok
1,1,1,2-tetrachloroethane	100	70-130	ok
ethylbenzene	96.9	70-130	ok
1,1,2,2-tetrachloroethane	93.1	70-130	ok
m&p-xylene	93.5	70-130	ok
o-xylene	94.5	70-130	ok
styrene	101	70-130	ok
bromofom	105	70-130	ok
isopropylbenzene	101	70-130	ok
1,2,3-trichloropropane	104	70-130	ok
bromobenzene	102	70-130	ok
n-propylbenzene	97.9	70-130	ok
2-chlorotoluene	94.6	70-130	ok
1,3,5-trimethylbenzene	103	70-130	ok
trans-1,4-dichloro-2-butene	89.9	70-130	ok
4-chlorotoluene	97.1	70-130	ok
tert-butyl-benzene	108	70-130	ok
1,2,4-trimethylbenzene	105	70-130	ok
sec-butyl-benzene	108	70-130	ok
p-isopropyltoluene	109	70-130	ok
1,3-dichlorobenzene	106	70-130	ok
1,4-dichlorobenzene	104	70-130	ok
n-butylbenzene	101	70-130	ok
1,2-dichlorobenzene	104	70-130	ok
1,2-dibromo-3-chloropropane	92.5	70-130	ok
1,2,4-trichlorobenzene	115	70-130	ok
hexachlorobutadiene	113	70-130	ok
naphthalene	109	70-130	ok
1,2,3-trichlorobenzene	115	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	93.4	70-130	DIBROMOFLUOROMETHANE	87.8	70-130	ok
1,2-DICHLOROETHANE-D4	86.7	70-130	1,2-DICHLOROETHANE-D4	99.4	70-130	ok
TOLUENE-D8	99.7	70-130	TOLUENE-D8	86.0	70-130	ok
4-BROMOFLUOROBENZENE	98.1	70-130	4-BROMOFLUOROBENZENE	104	70-130	ok
1,2-DICHLOROBENZENE-D4	97.6	70-130	1,2-DICHLOROBENZENE-D4	103	70-130	ok

EPA Method 8260 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	2/13/2008	
Volatile Organics	Conc. ug/kg	Acceptance Limit
dichlorodifluoromethane	< 100	< 100
chloromethane	< 100	< 100
vinyl chloride	< 50	< 50
bromomethane	< 100	< 100
chloroethane	< 50	< 50
trichlorofluoromethane	< 100	< 100
diethyl ether	< 250	< 250
acrolein	< 1300	< 1300
acetone	< 1300	< 1300
1,1-dichloroethene	< 50	< 50
FREON-113	< 100	< 100
iodomethane	< 50	< 50
carbon disulfide	< 500	< 500
dichloromethane	< 100	< 100
tert-butyl alcohol (TBA)	< 1300	< 1300
acrylonitrile	< 50	< 50
methyl-tert-butyl-ether	< 50	< 50
trans-1,2-dichloroethene	< 50	< 50
1,1-dichloroethane	< 50	< 50
di-isopropyl ether (DIPE)	< 100	< 100
ethyl tert-butyl ether (ETBE)	< 100	< 100
vinyl acetate	< 1300	< 1300
2-butanone	< 1300	< 1300
2,2-dichloropropane	< 50	< 50
cis-1,2-dichloroethene	< 50	< 50
chloroform	< 50	< 50
bromochloromethane	< 50	< 50
tetrahydrofuran	< 500	< 500
1,1,1-trichloroethane	< 50	< 50
1,1-dichloropropene	< 50	< 50
carbon tetrachloride	< 50	< 50
1,2-dichloroethane	< 50	< 50
benzene	< 50	< 50
tert-amyl methyl ether (TAME)	< 100	< 100
trichloroethene	< 50	< 50
1,2-dichloropropane	< 50	< 50
bromodichloromethane	< 50	< 50
1,4-Dioxane	< 5000	< 5000
1,1,1,2-tetrachloroethane	< 50	< 50
4-methyl-2-pentanone	< 1300	< 1300
cis-1,3-dichloropropene	< 50	< 50
toluene	< 50	< 50
trans-1,3-dichloropropene	< 100	< 100
1,1,2-trichloroethane	< 50	< 50
2-hexanone	< 1300	< 1300
1,3-dichloropropane	< 50	< 50
tetrachloroethene	< 50	< 50
1,1,1,2-tetrachloroethane	< 50	< 50
1,2-dibromoethane (EDB)	< 100	< 100
chlorobenzene	< 50	< 50
1,1,1,2-tetrachloroethane	< 50	< 50
ethylbenzene	< 50	< 50
1,1,2,2-tetrachloroethane	< 50	< 50
m&p-xylene	< 100	< 100
o-xylene	< 50	< 50
styrene	< 50	< 50
bromoforn	< 100	< 100
isopropylbenzene	< 50	< 50
1,2,3-trichloropropane	< 50	< 50
bromobenzene	< 50	< 50
n-propylbenzene	< 50	< 50
2-chlorotoluene	< 50	< 50
1,3,5-trimethylbenzene	< 50	< 50
trans-1,4-dichloro-2-butene	< 100	< 100
4-chlorotoluene	< 50	< 50
tert-butyl-benzene	< 50	< 50
1,2,4-trimethylbenzene	< 50	< 50
sec-butyl-benzene	< 50	< 50
p-isopropyltoluene	< 50	< 50
1,3-dichlorobenzene	< 50	< 50
1,4-dichlorobenzene	< 50	< 50
n-butylbenzene	< 50	< 50
1,2-dichlorobenzene	< 50	< 50
1,2-dibromo-3-chloropropane	< 250	< 250
1,2,4-trichlorobenzene	< 50	< 50
hexachlorobutadiene	< 50	< 50
naphthalene	< 100	< 100
1,2,3-trichlorobenzene	< 50	< 50

Laboratory Control Sample

Date Analyzed:	2/13/2008		
Spike Concentration = 2500ug/kg	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	99.0	70-130	ok
chloromethane	96.4	70-130	ok
vinyl chloride	105	70-130	ok
bromomethane	80.8	70-130	ok
chloroethane	65.9	70-130	out
trichlorofluoromethane	97.0	70-130	ok
diethyl ether	99.6	70-130	ok
acrolein	94.2	70-130	ok
acetone	98.8	70-130	ok
1,1-dichloroethene	102	70-130	ok
FREON-113	107	70-130	ok
iodomethane	108	70-130	ok
carbon disulfide	97.5	70-130	ok
dichloromethane	95.9	70-130	ok
tert-butyl alcohol (TBA)	94.8	70-130	ok
acrylonitrile	99.6	70-130	ok
methyl-tert-butyl-ether	102	70-130	ok
trans-1,2-dichloroethene	107	70-130	ok
1,1-dichloroethane	102	70-130	ok
di-isopropyl ether (DIPE)	94.5	70-130	ok
ethyl tert-butyl ether (ETBE)	105	70-130	ok
vinyl acetate	94.6	70-130	ok
2-butanone	105	70-130	ok
2,2-dichloropropane	95.8	70-130	ok
cis-1,2-dichloroethene	106	70-130	ok
chloroform	99.0	70-130	ok
bromochloromethane	115	70-130	ok
tetrahydrofuran	108	70-130	ok
1,1,1-trichloroethane	103	70-130	ok
1,1-dichloropropene	96.8	70-130	ok
carbon tetrachloride	109	70-130	ok
1,2-dichloroethane	94.8	70-130	ok
benzene	96.8	70-130	ok
tert-amyl methyl ether (TAME)	100	70-130	ok
trichloroethene	108	70-130	ok
1,2-dichloropropane	101	70-130	ok
bromodichloromethane	97.4	70-130	ok
1,4-Dioxane	113	70-130	ok
1,1,1,2-tetrachloroethane	119	70-130	ok
4-methyl-2-pentanone	103	70-130	ok
cis-1,3-dichloropropene	103	70-130	ok
toluene	108	70-130	ok
trans-1,3-dichloropropene	98.8	70-130	ok
1,1,2-trichloroethane	98.6	70-130	ok
2-hexanone	91.1	70-130	ok
1,3-dichloropropane	97.8	70-130	ok
tetrachloroethene	107	70-130	ok
1,1,1,2-tetrachloroethane	105	70-130	ok
1,2-dibromoethane (EDB)	106	70-130	ok
chlorobenzene	109	70-130	ok
1,1,1,2-tetrachloroethane	107	70-130	ok
ethylbenzene	107	70-130	ok
1,1,2,2-tetrachloroethane	97.1	70-130	ok
m&p-xylene	102	70-130	ok
o-xylene	93.7	70-130	ok
styrene	99.2	70-130	ok
bromoforn	96.0	70-130	ok
isopropylbenzene	99.0	70-130	ok
1,2,3-trichloropropane	94.4	70-130	ok
bromobenzene	98.1	70-130	ok
n-propylbenzene	95.4	70-130	ok
2-chlorotoluene	87.4	70-130	ok
1,3,5-trimethylbenzene	95.9	70-130	ok
trans-1,4-dichloro-2-butene	79.8	70-130	ok
4-chlorotoluene	91.2	70-130	ok
tert-butyl-benzene	97.2	70-130	ok
1,2,4-trimethylbenzene	93.4	70-130	ok
sec-butyl-benzene	92.2	70-130	ok
p-isopropyltoluene	95.6	70-130	ok
1,3-dichlorobenzene	92.7	70-130	ok
1,4-dichlorobenzene	92.7	70-130	ok
n-butylbenzene	88.5	70-130	ok
1,2-dichlorobenzene	90.4	70-130	ok
1,2-dibromo-3-chloropropane	77.8	70-130	ok
1,2,4-trichlorobenzene	99.5	70-130	ok
hexachlorobutadiene	98.2	70-130	ok
naphthalene	92.2	70-130	ok
1,2,3-trichlorobenzene	99.2	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	88.8	70-130	DIBROMOFLUOROMETHANE	112	70-130	ok
1,2-DICHLOROETHANE-D4	85.5	70-130	1,2-DICHLOROETHANE-D4	106	70-130	ok
TOLUENE-D8	91.2	70-130	TOLUENE-D8	112	70-130	ok
4-BROMOFLUOROBENZENE	103	70-130	4-BROMOFLUOROBENZENE	103	70-130	ok
1,2-DICHLOROBENZENE-D4	103	70-130	1,2-DICHLOROBENZENE-D4	93.6	70-130	ok

For lab use only

WW ONLY		ANALYSIS REQUIRED
	624	
	☐ 601 ☐ 602	
	625	
	Formaldehyde	
X X X X X X X X X X X X X X X X	8260	
	8021	
	8021 - "B010" List	
	8021 "8020" List	
	8270 ☐ Full ☐ PAH ☐ BN	
	8082-PCBs Only	
	8081 - Pest Only	
	TPH-GC (Mod. 8100)	
	TPH-GC w/FING	
	EPH (MA DEP)	
	VPH (MA DEP)	
	TCLP (Spec. Below)	
	Filtering (✓ if requested)	
	Metals ☐ PPM-13 ☐ R-8	
	Metals (List Below)	
X X X X X X X X X % SOLIDS		
NNNNNNNNNNNNNNNN	Total # of Cont.	Note #

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

gm/water $\rightarrow$ HCL Preserve

Soil $\rightarrow$ CH_3OH residue

LAB USE: _____

TEMP. OF COOL _____

Standard Rush Days. Approved by: _____

TURNAROUND TIME: _____

100

GZA FILE NO: 2003630302 P.O. NO. _____

LOCATION 500 Seneca St. Buffalo, NY

COLLECTOR(S) J. Davick SHEET 1



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project No.: **21.0056365.00**
Work Order No.: **0802-00040**
Date Received: **02/07/2008**
Date Reported: **02/14/2008**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
02/05/2008	Aqueous	0802-00040 001	SP - 11
02/05/2008	Aqueous	0802-00040 002	SP - 12
02/05/2008	Aqueous	0802-00040 003	Rinsate - Tube
02/05/2008	Aqueous	0802-00040 004	Rinsate - Sleeve



GZA GeoEnvironmental, Inc.
106 South Street
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ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00040**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 02/07/08 via ___GZA courier, ___x UPS, ___FEDEX, or ___hand delivered. The temperature of the ___x temperature blank/___cooler air, was 3.7 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference.

2. EPA Method 8260 - VOCs

The percent recoveries for the surrogates in the diluted runs are as follows:

SP-11: 1,2- Dichloroethane-D4 - 85.1%, Toluene-D8 - 93.4%, 4-Bromofluorobenzene - 97.2%

Attach QC 8260 02/12/08 S - Aqueous
Attach QC 8260 02/13/08 S - Aqueous



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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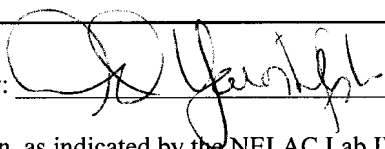
ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor

Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00040**

Data Authorized By: 

NELAC certification, as indicated by the NELAC Lab ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:

% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
CF = Calculation Factor
DO = Diluted Out

Method Key:

Method 8260: The current version of the method is 8260B.
Method 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
Method 6010: The current version of the method is 6010B.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00040**

Sample ID: **SP - 11**

Sample No.: **001**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	02/12/2008
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Chloromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Vinyl Chloride	EPA 8260	3.8	ug/L	MQS	02/12/2008
Bromomethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Chloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Diethylether	EPA 8260	<5.0	ug/L	MQS	02/12/2008
Acetone	EPA 8260	<25	ug/L	MQS	02/12/2008
1,1-Dichloroethene	EPA 8260	1.6	ug/L	MQS	02/12/2008
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	02/12/2008
trans-1,2-Dichloroethene	EPA 8260	3.0	ug/L	MQS	02/12/2008
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
2-Butanone	EPA 8260	<25	ug/L	MQS	02/12/2008
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
cis-1,2-Dichloroethene	EPA 8260	120	ug/L	MQS	02/13/2008
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/12/2008
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Benzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Trichloroethene	EPA 8260	560	ug/L	MQS	02/13/2008
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	02/12/2008
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Toluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/12/2008
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/12/2008
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Tetrachloroethene	EPA 8260	5300	ug/L	MQS	02/13/2008



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00040**

Sample ID: **SP - 11**

Sample No.: **001**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	02/12/2008
o-Xylene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Styrene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromoform	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	02/12/2008
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Naphthalene	EPA 8260	<2.0	ug/L	MQS	02/12/2008
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	94.6	% R	MQS	02/12/2008
***Toluene-D8	EPA 8260	113	% R	MQS	02/12/2008
***4-Bromofluorobenzene	EPA 8260	102	% R	MQS	02/12/2008
Preparation	EPA 5030B	1.0	CF	MQS	02/11/2008



ANALYTICAL REPORT

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Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00040**

Sample ID: **SP - 12**

Sample No.: **002**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	02/13/2008
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	02/13/2008
Chloromethane	EPA 8260	<2.0	ug/L	MQS	02/13/2008
Vinyl Chloride	EPA 8260	3.5	ug/L	MQS	02/13/2008
Bromomethane	EPA 8260	<2.0	ug/L	MQS	02/13/2008
Chloroethane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	02/13/2008
Diethylether	EPA 8260	<5.0	ug/L	MQS	02/13/2008
Acetone	EPA 8260	<25	ug/L	MQS	02/13/2008
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	02/13/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	02/13/2008
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
2-Butanone	EPA 8260	<25	ug/L	MQS	02/13/2008
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
cis-1,2-Dichloroethene	EPA 8260	8.6	ug/L	MQS	02/13/2008
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/13/2008
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Benzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Trichloroethene	EPA 8260	50	ug/L	MQS	02/13/2008
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	02/13/2008
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Toluene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/13/2008
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/13/2008
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Tetrachloroethene	EPA 8260	84	ug/L	MQS	02/13/2008



ANALYTICAL REPORT

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Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00040**

Sample ID: **SP - 12**

Sample No.: **002**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	02/13/2008
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	02/13/2008
o-Xylene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Styrene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Bromoform	EPA 8260	<2.0	ug/L	MQS	02/13/2008
Isopropylbenzene	EPA 8260	1.0	ug/L	MQS	02/13/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	02/13/2008
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Naphthalene	EPA 8260	<2.0	ug/L	MQS	02/13/2008
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/13/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	83.6	% R	MQS	02/13/2008
***Toluene-D8	EPA 8260	90.3	% R	MQS	02/13/2008
***4-Bromofluorobenzene	EPA 8260	97.8	% R	MQS	02/13/2008
Preparation	EPA 5030B	1.0	CF	MQS	02/12/2008



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Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00040**

Sample ID: **Rinsate - Tube**

Sample No.: **003**

Sample Date: **02/05/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	02/12/2008
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Chloromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromomethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Chloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Diethylether	EPA 8260	<5.0	ug/L	MQS	02/12/2008
Acetone	EPA 8260	<25	ug/L	MQS	02/12/2008
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	02/12/2008
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
2-Butanone	EPA 8260	<25	ug/L	MQS	02/12/2008
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/12/2008
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Benzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	02/12/2008
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Toluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/12/2008
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/12/2008
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Tetrachloroethene	EPA 8260	1.9	ug/L	MQS	02/12/2008



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
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Michelle Wittman

Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00040**

Sample ID: **Rinsate - Tube**
Sample Date: **02/05/2008**

Sample No.: **003**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	02/12/2008
o-Xylene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Styrene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromoform	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	02/12/2008
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Naphthalene	EPA 8260	<2.0	ug/L	MQS	02/12/2008
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	90.6	% R	MQS	02/12/2008
***Toluene-D8	EPA 8260	110	% R	MQS	02/12/2008
***4-Bromofluorobenzene	EPA 8260	99.2	% R	MQS	02/12/2008
Preparation	EPA 5030B	1.0	CF	MQS	02/11/2008



ANALYTICAL REPORT

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Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00040**

Sample ID: **Rinsate - Sleeve**
Sample Date: **02/05/2008**

Sample No.: **004**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	02/12/2008
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Chloromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromomethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Chloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Diethylether	EPA 8260	<5.0	ug/L	MQS	02/12/2008
Acetone	EPA 8260	<25	ug/L	MQS	02/12/2008
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	02/12/2008
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
2-Butanone	EPA 8260	<25	ug/L	MQS	02/12/2008
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/12/2008
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Benzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	02/12/2008
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Toluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/12/2008
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/12/2008
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Tetrachloroethene	EPA 8260	1.6	ug/L	MQS	02/12/2008



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
Michelle Wittman

Project Name.: **500 Seneca St.-Former New Era**
Project No.: **21.0056365.00**

Date Received: **02/07/2008**
Date Reported: **02/14/2008**
Work Order No.: **0802-00040**

Sample ID: **Rinsate - Sleeve**
Sample Date: **02/05/2008**

Sample No.: **004**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	02/12/2008
o-Xylene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Styrene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromoform	EPA 8260	<2.0	ug/L	MQS	02/12/2008
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	02/12/2008
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Naphthalene	EPA 8260	<2.0	ug/L	MQS	02/12/2008
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/12/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	77.7	% R	MQS	02/12/2008
***Toluene-D8	EPA 8260	95.6	% R	MQS	02/12/2008
***4-Bromofluorobenzene	EPA 8260	102	% R	MQS	02/12/2008
Preparation	EPA 5030B	1.0	CF	MQS	02/11/2008

EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	2/12/2008	
Volatile Organics	Conc. ug/L	Acceptance Limit
dichlorodifluoromethane	< 1.0	< 1.0
chloromethane	< 1.0	< 1.0
vinyl chloride	< 0.5	< 0.5
bromomethane	< 1.0	< 1.0
chloroethane	< 0.5	< 0.5
trichlorofluoromethane	< 1.0	< 1.0
diethyl ether	< 2.5	< 2.5
acrolein	< 13	< 13
acetone	< 13	< 13
1,1-dichloroethene	< 0.5	< 0.5
FREON-113	< 1.0	< 1.0
iodomethane	< 0.5	< 0.5
carbon disulfide	< 5.0	< 5.0
dichloromethane	< 1.0	< 1.0
tert-butyl alcohol (TBA)	< 13	< 13
acrylonitrile	< 0.5	< 0.5
methyl-tert-butyl-ether	< 0.5	< 0.5
trans-1,2-dichloroethene	< 0.5	< 0.5
1,1-dichloroethane	< 0.5	< 0.5
di-isopropyl ether (DIPE)	< 1.0	< 1.0
ethyl tert-butyl ether (EtBE)	< 1.0	< 1.0
vinyl acetate	< 13	< 13
2-butanone	< 13	< 13
2,2-dichloropropane	< 0.5	< 0.5
cis-1,2-dichloroethene	< 0.5	< 0.5
chloroform	< 0.5	< 0.5
bromochloromethane	< 0.5	< 0.5
tetrahydrofuran	< 5.0	< 5.0
1,1,1-trichloroethane	< 0.5	< 0.5
1,1-dichloropropene	< 0.5	< 0.5
carbon tetrachloride	< 0.5	< 0.5
1,2-dichloroethane	< 0.5	< 0.5
benzene	< 0.5	< 0.5
tert-amyl methyl ether (TAME)	< 1.0	< 1.0
trichloroethene	< 0.5	< 0.5
1,2-dichloropropane	< 0.5	< 0.5
bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
dibromomethane	< 0.5	< 0.5
4-methyl-2-pentanone	< 13	< 13
cis-1,3-dichloropropene	< 0.5	< 0.5
toluene	< 0.5	< 0.5
trans-1,3-dichloropropene	< 1.0	< 1.0
1,1,2-trichloroethane	< 0.5	< 0.5
2-hexanone	< 13	< 13
1,3-dichloropropane	< 0.5	< 0.5
tetrachloroethene	< 0.5	< 0.5
dibromochloromethane	< 0.5	< 0.5
1,2-dibromoethane (EDB)	< 1.0	< 1.0
chlorobenzene	< 0.5	< 0.5
1,1,1,2-tetrachloroethane	< 0.5	< 0.5
ethylbenzene	< 0.5	< 0.5
1,1,2,2-tetrachloroethane	< 0.5	< 0.5
m&p-xylene	< 1.0	< 1.0
o-xylene	< 0.5	< 0.5
styrene	< 0.5	< 0.5
bromoform	< 1.0	< 1.0
isopropylbenzene	< 0.5	< 0.5
1,2,3-trichloropropane	< 0.5	< 0.5
bromobenzene	< 0.5	< 0.5
n-propylbenzene	< 0.5	< 0.5
2-chlorotoluene	< 0.5	< 0.5
1,3,5-trimethylbenzene	< 0.5	< 0.5
trans-1,4-dichloro-2-butene	< 1.0	< 1.0
4-chlorotoluene	< 0.5	< 0.5
tert-butyl-benzene	< 0.5	< 0.5
1,2,4-trimethylbenzene	< 0.5	< 0.5
sec-butyl-benzene	< 0.5	< 0.5
p-isopropyltoluene	< 0.5	< 0.5
1,3-dichlorobenzene	< 0.5	< 0.5
1,4-dichlorobenzene	< 0.5	< 0.5
n-butylbenzene	< 0.5	< 0.5
1,2-dichlorobenzene	< 0.5	< 0.5
1,2-dibromo-3-chloropropane	< 2.5	< 2.5
1,2,4-trichlorobenzene	< 0.5	< 0.5
hexachlorobutadiene	< 0.5	< 0.5
naphthalene	< 1.0	< 1.0
1,2,3-trichlorobenzene	< 0.5	< 0.5

Laboratory Control Sample

Date Analyzed:	2/12/2008		Verdict
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	
dichlorodifluoromethane	118	70-130	ok
chloromethane	103	70-130	ok
vinyl chloride	109	70-130	ok
bromomethane	108	70-130	ok
chloroethane	95.7	70-130	ok
trichlorofluoromethane	122	70-130	ok
diethyl ether	101	70-130	ok
acrolein	105	70-130	ok
acetone	96.1	70-130	ok
1,1-dichloroethene	108	70-130	ok
FREON-113	113	70-130	ok
iodomethane	111	70-130	ok
carbon disulfide	99.3	70-130	ok
dichloromethane	93.3	70-130	ok
tert-butyl alcohol (TBA)	90.9	70-130	ok
acrylonitrile	103	70-130	ok
methyl-tert-butyl-ether	100	70-130	ok
trans-1,2-dichloroethene	106	70-130	ok
1,1-dichloroethane	104	70-130	ok
di-isopropyl ether (DIPE)	91.2	70-130	ok
ethyl tert-butyl ether (EtBE)	103	70-130	ok
vinyl acetate	90.9	70-130	ok
2-butanone	93.7	70-130	ok
2,2-dichloropropane	88.0	70-130	ok
cis-1,2-dichloroethene	103	70-130	ok
chloroform	101	70-130	ok
bromochloromethane	111	70-130	ok
tetrahydrofuran	98.8	70-130	ok
1,1,1-trichloroethane	108	70-130	ok
1,1-dichloropropene	98.6	70-130	ok
carbon tetrachloride	117	70-130	ok
1,2-dichloroethane	93.1	70-130	ok
benzene	96.0	70-130	ok
tert-amyl methyl ether (TAME)	94.6	70-130	ok
trichloroethene	104	70-130	ok
1,2-dichloropropane	103	70-130	ok
bromodichloromethane	99.1	70-130	ok
1,4-Dioxane	96.7	70-130	ok
dibromomethane	116	70-130	ok
4-methyl-2-pentanone	96.3	70-130	ok
cis-1,3-dichloropropene	99.3	70-130	ok
toluene	109	70-130	ok
trans-1,3-dichloropropene	94.8	70-130	ok
1,1,2-trichloroethane	96.2	70-130	ok
2-hexanone	85.4	70-130	ok
1,3-dichloropropane	96.6	70-130	ok
tetrachloroethene	104	70-130	ok
dibromochloromethane	103	70-130	ok
1,2-dibromoethane (EDB)	104	70-130	ok
chlorobenzene	110	70-130	ok
1,1,1,2-tetrachloroethane	107	70-130	ok
ethylbenzene	108	70-130	ok
1,1,2,2-tetrachloroethane	88.8	70-130	ok
m&p-xylene	103	70-130	ok
o-xylene	94.8	70-130	ok
styrene	97.8	70-130	ok
bromoform	92.6	70-130	ok
isopropylbenzene	99.7	70-130	ok
1,2,3-trichloropropane	90.2	70-130	ok
bromobenzene	95.7	70-130	ok
n-propylbenzene	93.7	70-130	ok
2-chlorotoluene	91.2	70-130	ok
1,3,5-trimethylbenzene	97.4	70-130	ok
trans-1,4-dichloro-2-butene	71.5	70-130	ok
4-chlorotoluene	91.4	70-130	ok
tert-butyl-benzene	101	70-130	ok
1,2,4-trimethylbenzene	96.3	70-130	ok
sec-butyl-benzene	95.7	70-130	ok
p-isopropyltoluene	99.5	70-130	ok
1,3-dichlorobenzene	95.9	70-130	ok
1,4-dichlorobenzene	92.0	70-130	ok
n-butylbenzene	91.0	70-130	ok
1,2-dichlorobenzene	91.3	70-130	ok
1,2-dibromo-3-chloropropane	76.3	70-130	ok
1,2,4-trichlorobenzene	100	70-130	ok
hexachlorobutadiene	101	70-130	ok
naphthalene	92.5	70-130	ok
1,2,3-trichlorobenzene	100	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	93.0	70-130	DIBROMOFLUOROMETHANE	112	70-130	ok
1,2-DICHLOROETHANE-D4	79.1	70-130	1,2-DICHLOROETHANE-D4	99.7	70-130	ok
TOLUENE-D8	98.6	70-130	TOLUENE-D8	117	70-130	ok
4-BROMOFLUOROBENZENE	98.1	70-130	4-BROMOFLUOROBENZENE	99.8	70-130	ok
1,2-DICHLOROETHANE-D4	94.4	70-130	1,2-DICHLOROETHANE-D4	94.2	70-130	ok

EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	2/13/2008	
Volatile Organics	Conc. ug/L	Acceptance Limit
dichlorodifluoromethane	< 1.0	< 1.0
chloromethane	< 1.0	< 1.0
vinyl chloride	< 0.5	< 0.5
bromomethane	< 1.0	< 1.0
chloroethane	< 0.5	< 0.5
trichlorofluoromethane	< 1.0	< 1.0
diethyl ether	< 2.5	< 2.5
acrolein	< 13	< 13
acetone	< 13	< 13
1,1-dichloroethene	< 0.5	< 0.5
FREON-113	< 1.0	< 1.0
iodomethane	< 0.5	< 0.5
carbon disulfide	< 5.0	< 5.0
dichloromethane	< 1.0	< 1.0
tert-butyl alcohol (TBA)	< 13	< 13
acrylonitrile	< 0.5	< 0.5
methyl-tert-butyl-ether	< 0.5	< 0.5
trans-1,2-dichloroethene	< 0.5	< 0.5
1,1-dichloroethane	< 0.5	< 0.5
di-isopropyl ether (DIPE)	< 1.0	< 1.0
ethyl tert-butyl ether (ETBE)	< 1.0	< 1.0
vinyl acetate	< 13	< 13
2-butanone	< 13	< 13
2,2-dichloropropane	< 0.5	< 0.5
cis-1,2-dichloroethene	< 0.5	< 0.5
chloroform	< 0.5	< 0.5
bromochloromethane	< 0.5	< 0.5
tetrahydrofuran	< 5.0	< 5.0
1,1,1-trichloroethane	< 0.5	< 0.5
1,1-dichloropropene	< 0.5	< 0.5
carbon tetrachloride	< 0.5	< 0.5
1,2-dichloroethane	< 0.5	< 0.5
benzene	< 0.5	< 0.5
tert-amyl methyl ether (TAME)	< 1.0	< 1.0
trichloroethene	< 0.5	< 0.5
1,2-dichloropropane	< 0.5	< 0.5
bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
1,1,1,2-tetrachloroethane	< 0.5	< 0.5
4-methyl-2-pentanone	< 13	< 13
cis-1,3-dichloropropene	< 0.5	< 0.5
toluene	< 0.5	< 0.5
trans-1,3-dichloropropene	< 1.0	< 1.0
1,1,2-trichloroethane	< 0.5	< 0.5
2-hexanone	< 13	< 13
1,3-dichloropropane	< 0.5	< 0.5
tetrachloroethene	< 0.5	< 0.5
dibromochloromethane	< 0.5	< 0.5
1,2-dibromoethane (EDB)	< 1.0	< 1.0
chlorobenzene	< 0.5	< 0.5
1,1,1,2-tetrachloroethane	< 0.5	< 0.5
ethylbenzene	< 0.5	< 0.5
1,1,2,2-tetrachloroethane	< 0.5	< 0.5
m&p-xylene	< 1.0	< 1.0
o-xylene	< 0.5	< 0.5
styrene	< 0.5	< 0.5
bromoform	< 1.0	< 1.0
isopropylbenzene	< 0.5	< 0.5
1,2,3-trichloropropane	< 0.5	< 0.5
bromobenzene	< 0.5	< 0.5
n-propylbenzene	< 0.5	< 0.5
2-chlorotoluene	< 0.5	< 0.5
1,3,5-trimethylbenzene	< 0.5	< 0.5
trans-1,4-dichloro-2-butene	< 1.0	< 1.0
4-chlorotoluene	< 0.5	< 0.5
tert-butyl-benzene	< 0.5	< 0.5
1,2,4-trimethylbenzene	< 0.5	< 0.5
sec-butyl-benzene	< 0.5	< 0.5
p-isopropyltoluene	< 0.5	< 0.5
1,3-dichlorobenzene	< 0.5	< 0.5
1,4-dichlorobenzene	< 0.5	< 0.5
n-butylbenzene	< 0.5	< 0.5
1,2-dichlorobenzene	< 0.5	< 0.5
1,2-dibromo-3-chloropropane	< 2.5	< 2.5
1,2,4-trichlorobenzene	< 0.5	< 0.5
hexachlorobutadiene	< 0.5	< 0.5
naphthalene	< 1.0	< 1.0
1,2,3-trichlorobenzene	< 0.5	< 0.5

Laboratory Control Sample

Date Analyzed:	2/13/2008		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	79.2	70-130	ok
chloromethane	72.5	70-130	ok
vinyl chloride	79.4	70-130	ok
bromomethane	81.2	70-130	ok
chloroethane	72.0	70-130	ok
trichlorofluoromethane	88.0	70-130	ok
diethyl ether	80.7	70-130	ok
acrolein	77.8	70-130	ok
acetone	75.7	70-130	ok
1,1-dichloroethene	84.1	70-130	ok
FREON-113	89.2	70-130	ok
iodomethane	86.8	70-130	ok
carbon disulfide	76.0	70-130	ok
dichloromethane	73.7	70-130	ok
tert-butyl alcohol (TBA)	74.2	70-130	ok
acrylonitrile	78.1	70-130	ok
methyl-tert-butyl-ether	76.6	70-130	ok
trans-1,2-dichloroethene	84.7	70-130	ok
1,1-dichloroethane	80.0	70-130	ok
di-isopropyl ether (DIPE)	72.3	70-130	ok
ethyl tert-butyl ether (EtBE)	82.3	70-130	ok
vinyl acetate	71.4	70-130	ok
2-butanone	76.8	70-130	ok
2,2-dichloropropane	63.5	70-130	out
cis-1,2-dichloroethene	82.8	70-130	ok
chloroform	79.1	70-130	ok
bromochloromethane	90.2	70-130	ok
tetrahydrofuran	81.2	70-130	ok
1,1,1-trichloroethane	82.0	70-130	ok
1,1-dichloropropene	78.0	70-130	ok
carbon tetrachloride	87.7	70-130	ok
1,2-dichloroethane	79.0	70-130	ok
benzene	79.1	70-130	ok
tert-amyl methyl ether (TAME)	91.4	70-130	ok
trichloroethene	107	70-130	ok
1,2-dichloropropane	83.1	70-130	ok
bromodichloromethane	78.6	70-130	ok
1,4-Dioxane	85.5	70-130	ok
dibromomethane	99.1	70-130	ok
4-methyl-2-pentanone	77.9	70-130	ok
cis-1,3-dichloropropene	79.0	70-130	ok
toluene	86.2	70-130	ok
trans-1,3-dichloropropene	72.6	70-130	ok
1,1,2-trichloroethane	102	70-130	ok
2-hexanone	90.6	70-130	ok
1,3-dichloropropane	98.2	70-130	ok
tetrachloroethene	111	70-130	ok
dibromochloromethane	105	70-130	ok
1,2-dibromoethane (EDB)	106	70-130	ok
chlorobenzene	106	70-130	ok
1,1,1,2-tetrachloroethane	109	70-130	ok
ethylbenzene	104	70-130	ok
1,1,2,2-tetrachloroethane	97.9	70-130	ok
m&p-xylene	99.6	70-130	ok
o-xylene	95.6	70-130	ok
styrene	102	70-130	ok
bromoform	96.2	70-130	ok
isopropylbenzene	103	70-130	ok
1,2,3-trichloropropane	96.1	70-130	ok
bromobenzene	102	70-130	ok
n-propylbenzene	97.6	70-130	ok
2-chlorotoluene	95.9	70-130	ok
1,3,5-trimethylbenzene	101	70-130	ok
trans-1,4-dichloro-2-butene	95.4	70-130	ok
4-chlorotoluene	97.7	70-130	ok
tert-butyl-benzene	106	70-130	ok
1,2,4-trimethylbenzene	98.1	70-130	ok
sec-butyl-benzene	96.3	70-130	ok
p-isopropyltoluene	101	70-130	ok
1,3-dichlorobenzene	97.3	70-130	ok
1,4-dichlorobenzene	96.1	70-130	ok
n-butylbenzene	91.6	70-130	ok
1,2-dichlorobenzene	92.6	70-130	ok
1,2-dibromo-3-chloropropane	81.9	70-130	ok
1,2,4-trichlorobenzene	98.0	70-130	ok
hexachlorobutadiene	100	70-130	ok
naphthalene	92.4	70-130	ok
1,2,3-trichlorobenzene	100	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	110	70-130	DIBROMOFLUOROMETHANE	85.6	70-130	ok
1,2-DICHLOROETHANE-D4	95.6	70-130	1,2-DICHLOROETHANE-D4	78.1	70-130	ok
TOLUENE-D8	118	70-130	TOLUENE-D8	89.3	70-130	ok
4-BROMOFLUOROBENZENE	97.9	70-130	4-BROMOFLUOROBENZENE	99.6	70-130	ok
1,2-DICHLOROBENZENE-D4	93.1	70-130	1,2-DICHLOROBENZENE-D4	92.9	70-130	ok

CHAIN-OF-CUSTODY RECORD

W.O. # 0802-00540
(for lab use only)

Sample ID.	Date/Time Sampled (Very Important)	Matrix A=Air S=Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. Other (Specify)	ANALYSIS REQUIRED														Total # of Cont.	Note #													
			WW ONLY																												
			☐ pH	☐ Cond.	☐ GC Screen (VOA)	☐ 524.2	☐ 502.2	624	☐ 601	☐ 602	625	Formaldehyde	8260	8021	8021 - "8010" List	8021 "8020" List	8270 ☐ Full ☐ PAH ☐ BN	8082-PCBs Only	8081 - Pest Only	TPH-GC (Mod. 8100)	TPH-GC w/FING	EPH (MA DEP)	VPH (MA DEP)	TCLP (Spec. Below)	Filtering (✓ if requested)	Metals ☐ PPM-13 ☐ R-8	Metals (List Below)				
SP-11	6-8 ft	2/5/08 9:30																												2	
SP-12	8-11 ft	10:00																												2	
SP-13	6-8 ft	10:40																												2	
SP-14	6-8 ft	11:40																												2	
SP-14A	6-8 ft	11:50																												2	
SP-15	8-10 ft	13:00																												2	
SP-16	6-8 ft	13:40																												2	
SP-16	8-10 ft	13:45																												2	
SP-17	14-16 ft	14:35																												2	
SP-18	12-15 ft	16:35																												2	
SP-11		16:00																												3	
SP-12		16:30																												3	

PRESERVATIVE (Cl - HCl, M=MeOH, N - HNO₃, S - H₂SO₄, Na - NaOH, O - Other)*

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)*

RELINQUISHED BY: 2/6/08 DATE/TIME 16:00 RECEIVED BY: URS

RELINQUISHED BY: DAVIDE DATE/TIME 2/6/08 16:00 RECEIVED BY: URS

RELINQUISHED BY: URS DATE/TIME 2/6/08 16:30 RECEIVED BY: URS

PROJECT MANAGER: Michael L. Whitman EXT:

DATA REPORT ☒ PDF (Adobe) ☐ ASCII ☐ EXCEL Specify State

GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS

106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

GW/water → HCL Preserve
Soil → CH₃OH Preserve

* 5 DAY TURNAROUND *

TURNAROUND TIME: Standard Rush Days, Approved by: LAB USE: TEMP. OF COOLER 3.7 °C

GZA FILE NO: 210056865.20 P.O. NO.

PROJECT: Former Neo Ea

LOCATION: 500 Seneca St Buffalo NY

COLLECTOR(S): J. Davicle SHEET 1 OF 2



(For lab use only)

water

CHAIN-OF-CUSTODY RECORD

Sample I.D. _____ Date/Time Sampled (Very Important) _____ Matrix _____

Presat - Tube 2/5/08 16:40 1000 Ltrs
Rinsate-Skewer 1000 Ltrs

RELINQUISHED BY: J. DAVIDE 2/6/08 16:00 005
RECEIVED BY: _____
DATE/TIME _____

RELINQUISHED BY: _____ DATE/TIME _____ RECEIVED BY: _____

PROJECT MANAGER: Michele Dittmar
DATA REPORT: PDA (Adobe) EXCEL Specify State

GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS
106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

ANALYSIS REQUIRED

Turnaround Time: Standard Rush Days, Approved by: _____

GZA FILE NO: 21.0056365.20 P.O. NO. _____

PROJECT: Panel New Era

LOCATION: 500 Seaca St, Buffalo, NY

COLLECTOR(S): J. Davide SHEET 2 OF 2

LAB USE: TEMP. OF COOLER 3.7 °C

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:
All Preserve in water
5 DAY TURNAROUND

780714

Centek Laboratories, LLC

Date: 28-Mar-08

CLIENT:	GZA GeoEnvironmental of NY	Client Sample ID:	Subslab warehouse
Lab Order:	C0803028	Tag Number:	325,263
Project:	500 Seneca St.	Collection Date:	3/19/2008
Lab ID:	C0803028-001A	Matrix:	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Vacuum Reading "Hg	-3			"Hg		3/19/2008
1UG/M3 BY METHOD TO15		TO-15		Analyst: LL		
1,1,1-Trichloroethane	ND	0.83		ug/m3	1	3/25/2008 9:11:00 PM
1,1,2,2-Tetrachloroethane	ND	1.0		ug/m3	1	3/25/2008 9:11:00 PM
1,1,2-Trichloroethane	ND	0.83		ug/m3	1	3/25/2008 9:11:00 PM
1,1-Dichloroethane	ND	0.62		ug/m3	1	3/25/2008 9:11:00 PM
1,1-Dichloroethene	ND	0.60		ug/m3	1	3/25/2008 9:11:00 PM
1,2,4-Trichlorobenzene	ND	1.1		ug/m3	1	3/25/2008 9:11:00 PM
1,2,4-Trimethylbenzene	1.2	0.75		ug/m3	1	3/25/2008 9:11:00 PM
1,2-Dibromoethane	ND	1.2		ug/m3	1	3/25/2008 9:11:00 PM
1,2-Dichlorobenzene	ND	0.92		ug/m3	1	3/25/2008 9:11:00 PM
1,2-Dichloroethane	ND	0.62		ug/m3	1	3/25/2008 9:11:00 PM
1,2-Dichloropropane	ND	0.70		ug/m3	1	3/25/2008 9:11:00 PM
1,3,5-Trimethylbenzene	1.0	0.75		ug/m3	1	3/25/2008 9:11:00 PM
1,3-butadiene	ND	0.34		ug/m3	1	3/25/2008 9:11:00 PM
1,3-Dichlorobenzene	ND	0.92		ug/m3	1	3/25/2008 9:11:00 PM
1,4-Dichlorobenzene	ND	0.92		ug/m3	1	3/25/2008 9:11:00 PM
1,4-Dioxane	ND	1.1		ug/m3	1	3/25/2008 9:11:00 PM
2,2,4-trimethylpentane	0.57	0.71	J	ug/m3	1	3/25/2008 9:11:00 PM
4-ethyltoluene	0.65	0.75	J	ug/m3	1	3/25/2008 9:11:00 PM
Acetone	27	7.2		ug/m3	10	3/25/2008 9:43:00 PM
Allyl chloride	ND	0.48		ug/m3	1	3/25/2008 9:11:00 PM
Benzene	1.9	0.49		ug/m3	1	3/25/2008 9:11:00 PM
Benzyl chloride	ND	0.88		ug/m3	1	3/25/2008 9:11:00 PM
Bromodichloromethane	ND	1.0		ug/m3	1	3/25/2008 9:11:00 PM
Bromoform	ND	1.6		ug/m3	1	3/25/2008 9:11:00 PM
Bromomethane	ND	0.59		ug/m3	1	3/25/2008 9:11:00 PM
Carbon disulfide	3.4	0.47		ug/m3	1	3/25/2008 9:11:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	3/25/2008 9:11:00 PM
Chlorobenzene	ND	0.70		ug/m3	1	3/25/2008 9:11:00 PM
Chloroethane	ND	0.40		ug/m3	1	3/25/2008 9:11:00 PM
Chloroform	0.99	0.74		ug/m3	1	3/25/2008 9:11:00 PM
Chloromethane	ND	0.31		ug/m3	1	3/25/2008 9:11:00 PM
cis-1,2-Dichloroethene	ND	0.60		ug/m3	1	3/25/2008 9:11:00 PM
cis-1,3-Dichloropropene	ND	0.69		ug/m3	1	3/25/2008 9:11:00 PM
Cyclohexane	26	5.2		ug/m3	10	3/25/2008 9:43:00 PM
Dibromochloromethane	ND	1.3		ug/m3	1	3/25/2008 9:11:00 PM
Ethyl acetate	0.92	0.92		ug/m3	1	3/25/2008 9:11:00 PM
Ethylbenzene	1.3	0.66		ug/m3	1	3/25/2008 9:11:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC**Date:** 28-Mar-08

CLIENT: GZA GeoEnvironmental of NY
Lab Order: C0803028
Project: 500 Seneca St.
Lab ID: C0803028-001A

Client Sample ID: Subslab warehouse
Tag Number: 325,263
Collection Date: 3/19/2008
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15		Analyst: LL		
Freon 11	1.7	0.86		ug/m3	1	3/25/2008 9:11:00 PM
Freon 113	ND	1.2		ug/m3	1	3/25/2008 9:11:00 PM
Freon 114	ND	1.1		ug/m3	1	3/25/2008 9:11:00 PM
Freon 12	4.1	0.75		ug/m3	1	3/25/2008 9:11:00 PM
Heptane	3.9	0.62		ug/m3	1	3/25/2008 9:11:00 PM
Hexachloro-1,3-butadiene	ND	1.6		ug/m3	1	3/25/2008 9:11:00 PM
Hexane	3.0	0.54		ug/m3	1	3/25/2008 9:11:00 PM
Isopropyl alcohol	ND	0.37		ug/m3	1	3/25/2008 9:11:00 PM
m&p-Xylene	3.4	1.3		ug/m3	1	3/25/2008 9:11:00 PM
Methyl Butyl Ketone	ND	1.2		ug/m3	1	3/25/2008 9:11:00 PM
Methyl Ethyl Ketone	2.0	0.90		ug/m3	1	3/25/2008 9:11:00 PM
Methyl Isobutyl Ketone	0.58	1.2	J	ug/m3	1	3/25/2008 9:11:00 PM
Methyl tert-butyl ether	ND	0.55		ug/m3	1	3/25/2008 9:11:00 PM
Methylene chloride	1.8	0.53		ug/m3	1	3/25/2008 9:11:00 PM
o-Xylene	1.6	0.66		ug/m3	1	3/25/2008 9:11:00 PM
Propylene	ND	0.26		ug/m3	1	3/25/2008 9:11:00 PM
Styrene	1.2	0.65		ug/m3	1	3/25/2008 9:11:00 PM
Tetrachloroethylene	13	1.0		ug/m3	1	3/25/2008 9:11:00 PM
Tetrahydrofuran	ND	0.45		ug/m3	1	3/25/2008 9:11:00 PM
Toluene	5.1	0.57		ug/m3	1	3/25/2008 9:11:00 PM
trans-1,2-Dichloroethene	ND	0.60		ug/m3	1	3/25/2008 9:11:00 PM
trans-1,3-Dichloropropene	ND	0.69		ug/m3	1	3/25/2008 9:11:00 PM
Trichloroethene	0.82	0.82		ug/m3	1	3/25/2008 9:11:00 PM
Vinyl acetate	ND	0.54		ug/m3	1	3/25/2008 9:11:00 PM
Vinyl Bromide	ND	0.67		ug/m3	1	3/25/2008 9:11:00 PM
Vinyl chloride	ND	0.39		ug/m3	1	3/25/2008 9:11:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-08

CLIENT: GZA GeoEnvironmental of NY
Lab Order: C0803028
Project: 500 Seneca St.
Lab ID: C0803028-002A

Client Sample ID: Ambient Warehouse
Tag Number: 137,174
Collection Date: 3/19/2008
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Vacuum Reading "Hg	-5			"Hg		3/19/2008
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: LL		
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	3/25/2008 3:35:00 PM
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	3/25/2008 3:35:00 PM
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	3/25/2008 3:35:00 PM
1,1-Dichloroethane	ND	0.617		ug/m3	1	3/25/2008 3:35:00 PM
1,1-Dichloroethene	ND	0.605		ug/m3	1	3/25/2008 3:35:00 PM
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	3/25/2008 3:35:00 PM
1,2,4-Trimethylbenzene	0.949	0.749		ug/m3	1	3/25/2008 3:35:00 PM
1,2-Dibromoethane	ND	1.17		ug/m3	1	3/25/2008 3:35:00 PM
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	3/25/2008 3:35:00 PM
1,2-Dichloroethane	ND	0.617		ug/m3	1	3/25/2008 3:35:00 PM
1,2-Dichloropropane	ND	0.705		ug/m3	1	3/25/2008 3:35:00 PM
1,3,5-Trimethylbenzene	0.550	0.750	J	ug/m3	1	3/25/2008 3:35:00 PM
1,3-butadiene	ND	0.337		ug/m3	1	3/25/2008 3:35:00 PM
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	3/25/2008 3:35:00 PM
1,4-Dichlorobenzene	1.77	0.917		ug/m3	1	3/25/2008 3:35:00 PM
1,4-Dioxane	ND	1.10		ug/m3	1	3/25/2008 3:35:00 PM
2,2,4-trimethylpentane	ND	0.712		ug/m3	1	3/25/2008 3:35:00 PM
4-ethyltoluene	ND	0.750		ug/m3	1	3/25/2008 3:35:00 PM
Acetone	16.2	3.62		ug/m3	5	3/25/2008 4:08:00 PM
Allyl chloride	ND	0.477		ug/m3	1	3/25/2008 3:35:00 PM
Benzene	1.56	0.487		ug/m3	1	3/25/2008 3:35:00 PM
Benzyl chloride	ND	0.877		ug/m3	1	3/25/2008 3:35:00 PM
Bromodichloromethane	ND	1.02		ug/m3	1	3/25/2008 3:35:00 PM
Bromoform	ND	1.58		ug/m3	1	3/25/2008 3:35:00 PM
Bromomethane	ND	0.592		ug/m3	1	3/25/2008 3:35:00 PM
Carbon disulfide	0.538	0.475		ug/m3	1	3/25/2008 3:35:00 PM
Carbon tetrachloride	0.703	0.256		ug/m3	1	3/25/2008 3:35:00 PM
Chlorobenzene	ND	0.702		ug/m3	1	3/25/2008 3:35:00 PM
Chloroethane	ND	0.402		ug/m3	1	3/25/2008 3:35:00 PM
Chloroform	ND	0.744		ug/m3	1	3/25/2008 3:35:00 PM
Chloromethane	0.945	0.315		ug/m3	1	3/25/2008 3:35:00 PM
cis-1,2-Dichloroethene	ND	0.604		ug/m3	1	3/25/2008 3:35:00 PM
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	3/25/2008 3:35:00 PM
Cyclohexane	1.19	0.525		ug/m3	1	3/25/2008 3:35:00 PM
Dibromochloromethane	ND	1.30		ug/m3	1	3/25/2008 3:35:00 PM
Ethyl acetate	1.72	0.916		ug/m3	1	3/25/2008 3:35:00 PM
Ethylbenzene	0.927	0.662		ug/m3	1	3/25/2008 3:35:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-08

CLIENT: GZA GeoEnvironmental of NY
Lab Order: C0803028
Project: 500 Seneca St.
Lab ID: C0803028-002A

Client Sample ID: Ambient Warehouse
Tag Number: 137,174
Collection Date: 3/19/2008
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
		TO-15				Analyst: LL
Freon 11	1.37	0.857		ug/m3	1	3/25/2008 3:35:00 PM
Freon 113	ND	1.17		ug/m3	1	3/25/2008 3:35:00 PM
Freon 114	ND	1.07		ug/m3	1	3/25/2008 3:35:00 PM
Freon 12	4.52	0.754		ug/m3	1	3/25/2008 3:35:00 PM
Heptane	2.08	0.625		ug/m3	1	3/25/2008 3:35:00 PM
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	3/25/2008 3:35:00 PM
Hexane	1.00	0.537		ug/m3	1	3/25/2008 3:35:00 PM
Isopropyl alcohol	ND	0.375		ug/m3	1	3/25/2008 3:35:00 PM
m&p-Xylene	2.52	1.32		ug/m3	1	3/25/2008 3:35:00 PM
Methyl Butyl Ketone	ND	1.25		ug/m3	1	3/25/2008 3:35:00 PM
Methyl Ethyl Ketone	2.01	0.899		ug/m3	1	3/25/2008 3:35:00 PM
Methyl Isobutyl Ketone	0.749	1.25	J	ug/m3	1	3/25/2008 3:35:00 PM
Methyl tert-butyl ether	ND	0.550		ug/m3	1	3/25/2008 3:35:00 PM
Methylene chloride	2.05	0.530		ug/m3	1	3/25/2008 3:35:00 PM
o-Xylene	1.06	0.662		ug/m3	1	3/25/2008 3:35:00 PM
Propylene	ND	0.262		ug/m3	1	3/25/2008 3:35:00 PM
Styrene	0.476	0.649	J	ug/m3	1	3/25/2008 3:35:00 PM
Tetrachloroethylene	1.38	1.03		ug/m3	1	3/25/2008 3:35:00 PM
Tetrahydrofuran	ND	0.450		ug/m3	1	3/25/2008 3:35:00 PM
Toluene	35.4	2.87		ug/m3	5	3/25/2008 4:08:00 PM
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	3/25/2008 3:35:00 PM
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	3/25/2008 3:35:00 PM
Trichloroethene	0.655	0.218		ug/m3	1	3/25/2008 3:35:00 PM
Vinyl acetate	ND	0.537		ug/m3	1	3/25/2008 3:35:00 PM
Vinyl Bromide	ND	0.667		ug/m3	1	3/25/2008 3:35:00 PM
Vinyl chloride	ND	0.104		ug/m3	1	3/25/2008 3:35:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-08

CLIENT: GZA GeoEnvironmental of NY
Lab Order: C0803028
Project: 500 Seneca St.
Lab ID: C0803028-003A

Client Sample ID: Subslab office
Tag Number: 100,153
Collection Date: 3/19/2008
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Vacuum Reading "Hg	-2			"Hg		3/19/2008
1UG/M3 BY METHOD TO15		TO-15		Analyst: LL		
1,1,1-Trichloroethane	ND	0.83		ug/m3	1	3/25/2008 10:49:00 PM
1,1,2,2-Tetrachloroethane	ND	1.0		ug/m3	1	3/25/2008 10:49:00 PM
1,1,2-Trichloroethane	ND	0.83		ug/m3	1	3/25/2008 10:49:00 PM
1,1-Dichloroethane	ND	0.62		ug/m3	1	3/25/2008 10:49:00 PM
1,1-Dichloroethene	ND	0.60		ug/m3	1	3/25/2008 10:49:00 PM
1,2,4-Trichlorobenzene	ND	1.1		ug/m3	1	3/25/2008 10:49:00 PM
1,2,4-Trimethylbenzene	1.3	0.75		ug/m3	1	3/25/2008 10:49:00 PM
1,2-Dibromoethane	ND	1.2		ug/m3	1	3/25/2008 10:49:00 PM
1,2-Dichlorobenzene	ND	0.92		ug/m3	1	3/25/2008 10:49:00 PM
1,2-Dichloroethane	ND	0.62		ug/m3	1	3/25/2008 10:49:00 PM
1,2-Dichloropropane	ND	0.70		ug/m3	1	3/25/2008 10:49:00 PM
1,3,5-Trimethylbenzene	0.90	0.75		ug/m3	1	3/25/2008 10:49:00 PM
1,3-butadiene	ND	0.34		ug/m3	1	3/25/2008 10:49:00 PM
1,3-Dichlorobenzene	ND	0.92		ug/m3	1	3/25/2008 10:49:00 PM
1,4-Dichlorobenzene	ND	0.92		ug/m3	1	3/25/2008 10:49:00 PM
1,4-Dioxane	ND	1.1		ug/m3	1	3/25/2008 10:49:00 PM
2,2,4-trimethylpentane	0.52	0.71	J	ug/m3	1	3/25/2008 10:49:00 PM
4-ethyltoluene	0.75	0.75		ug/m3	1	3/25/2008 10:49:00 PM
Acetone	22	7.2		ug/m3	10	3/25/2008 11:21:00 PM
Allyl chloride	ND	0.48		ug/m3	1	3/25/2008 10:49:00 PM
Benzene	1.9	0.49		ug/m3	1	3/25/2008 10:49:00 PM
Benzyl chloride	ND	0.88		ug/m3	1	3/25/2008 10:49:00 PM
Bromodichloromethane	ND	1.0		ug/m3	1	3/25/2008 10:49:00 PM
Bromoform	ND	1.6		ug/m3	1	3/25/2008 10:49:00 PM
Bromomethane	ND	0.59		ug/m3	1	3/25/2008 10:49:00 PM
Carbon disulfide	3.2	0.47		ug/m3	1	3/25/2008 10:49:00 PM
Carbon tetrachloride	0.64	0.96	J	ug/m3	1	3/25/2008 10:49:00 PM
Chlorobenzene	ND	0.70		ug/m3	1	3/25/2008 10:49:00 PM
Chloroethane	ND	0.40		ug/m3	1	3/25/2008 10:49:00 PM
Chloroform	ND	0.74		ug/m3	1	3/25/2008 10:49:00 PM
Chloromethane	0.23	0.31	J	ug/m3	1	3/25/2008 10:49:00 PM
cis-1,2-Dichloroethene	ND	0.60		ug/m3	1	3/25/2008 10:49:00 PM
cis-1,3-Dichloropropene	ND	0.69		ug/m3	1	3/25/2008 10:49:00 PM
Cyclohexane	6.6	5.2		ug/m3	10	3/25/2008 11:21:00 PM
Dibromochloromethane	ND	1.3		ug/m3	1	3/25/2008 10:49:00 PM
Ethyl acetate	1.3	0.92		ug/m3	1	3/25/2008 10:49:00 PM
Ethylbenzene	2.0	0.66		ug/m3	1	3/25/2008 10:49:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC**Date:** 28-Mar-08

CLIENT: GZA GeoEnvironmental of NY
Lab Order: C0803028
Project: 500 Seneca St.
Lab ID: C0803028-003A

Client Sample ID: Subslab office
Tag Number: 100,153
Collection Date: 3/19/2008
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 11	1.8	0.86		ug/m3	1	3/25/2008 10:49:00 PM
Freon 113	ND	1.2		ug/m3	1	3/25/2008 10:49:00 PM
Freon 114	ND	1.1		ug/m3	1	3/25/2008 10:49:00 PM
Freon 12	4.5	0.75		ug/m3	1	3/25/2008 10:49:00 PM
Heptane	4.5	0.62		ug/m3	1	3/25/2008 10:49:00 PM
Hexachloro-1,3-butadiene	ND	1.6		ug/m3	1	3/25/2008 10:49:00 PM
Hexane	2.8	0.54		ug/m3	1	3/25/2008 10:49:00 PM
Isopropyl alcohol	ND	0.37		ug/m3	1	3/25/2008 10:49:00 PM
m&p-Xylene	5.0	1.3		ug/m3	1	3/25/2008 10:49:00 PM
Methyl Butyl Ketone	ND	1.2		ug/m3	1	3/25/2008 10:49:00 PM
Methyl Ethyl Ketone	2.4	0.90		ug/m3	1	3/25/2008 10:49:00 PM
Methyl Isobutyl Ketone	0.42	1.2	J	ug/m3	1	3/25/2008 10:49:00 PM
Methyl tert-butyl ether	ND	0.55		ug/m3	1	3/25/2008 10:49:00 PM
Methylene chloride	2.4	0.53		ug/m3	1	3/25/2008 10:49:00 PM
o-Xylene	2.2	0.66		ug/m3	1	3/25/2008 10:49:00 PM
Propylene	ND	0.26		ug/m3	1	3/25/2008 10:49:00 PM
Styrene	1.6	0.65		ug/m3	1	3/25/2008 10:49:00 PM
Tetrachloroethylene	21	10		ug/m3	10	3/25/2008 11:21:00 PM
Tetrahydrofuran	0.51	0.45		ug/m3	1	3/25/2008 10:49:00 PM
Toluene	7.5	0.57		ug/m3	1	3/25/2008 10:49:00 PM
trans-1,2-Dichloroethene	ND	0.60		ug/m3	1	3/25/2008 10:49:00 PM
trans-1,3-Dichloropropene	ND	0.69		ug/m3	1	3/25/2008 10:49:00 PM
Trichloroethene	1.7	0.82		ug/m3	1	3/25/2008 10:49:00 PM
Vinyl acetate	ND	0.54		ug/m3	1	3/25/2008 10:49:00 PM
Vinyl Bromide	ND	0.67		ug/m3	1	3/25/2008 10:49:00 PM
Vinyl chloride	ND	0.39		ug/m3	1	3/25/2008 10:49:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-08

CLIENT: GZA GeoEnvironmental of NY
Lab Order: C0803028
Project: 500 Seneca St.
Lab ID: C0803028-004A

Client Sample ID: Ambient office
Tag Number: 424,449
Collection Date: 3/19/2008
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Vacuum Reading "Hg	-9			"Hg		3/19/2008
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: LL		
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	3/25/2008 7:01:00 PM
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	3/25/2008 7:01:00 PM
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	3/25/2008 7:01:00 PM
1,1-Dichloroethane	ND	0.617		ug/m3	1	3/25/2008 7:01:00 PM
1,1-Dichloroethene	ND	0.605		ug/m3	1	3/25/2008 7:01:00 PM
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	3/25/2008 7:01:00 PM
1,2,4-Trimethylbenzene	0.899	0.749		ug/m3	1	3/25/2008 7:01:00 PM
1,2-Dibromoethane	ND	1.17		ug/m3	1	3/25/2008 7:01:00 PM
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	3/25/2008 7:01:00 PM
1,2-Dichloroethane	ND	0.617		ug/m3	1	3/25/2008 7:01:00 PM
1,2-Dichloropropane	ND	0.705		ug/m3	1	3/25/2008 7:01:00 PM
1,3,5-Trimethylbenzene	0.600	0.750	J	ug/m3	1	3/25/2008 7:01:00 PM
1,3-butadiene	ND	0.337		ug/m3	1	3/25/2008 7:01:00 PM
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	3/25/2008 7:01:00 PM
1,4-Dichlorobenzene	1.83	0.917		ug/m3	1	3/25/2008 7:01:00 PM
1,4-Dioxane	ND	1.10		ug/m3	1	3/25/2008 7:01:00 PM
2,2,4-trimethylpentane	ND	0.712		ug/m3	1	3/25/2008 7:01:00 PM
4-ethyltoluene	ND	0.750		ug/m3	1	3/25/2008 7:01:00 PM
Acetone	13.9	3.62		ug/m3	5	3/25/2008 8:06:00 PM
Allyl chloride	ND	0.477		ug/m3	1	3/25/2008 7:01:00 PM
Benzene	1.46	0.487		ug/m3	1	3/25/2008 7:01:00 PM
Benzyl chloride	ND	0.877		ug/m3	1	3/25/2008 7:01:00 PM
Bromodichloromethane	ND	1.02		ug/m3	1	3/25/2008 7:01:00 PM
Bromoform	ND	1.58		ug/m3	1	3/25/2008 7:01:00 PM
Bromomethane	ND	0.592		ug/m3	1	3/25/2008 7:01:00 PM
Carbon disulfide	0.601	0.475		ug/m3	1	3/25/2008 7:01:00 PM
Carbon tetrachloride	0.831	0.256		ug/m3	1	3/25/2008 7:01:00 PM
Chlorobenzene	ND	0.702		ug/m3	1	3/25/2008 7:01:00 PM
Chloroethane	ND	0.402		ug/m3	1	3/25/2008 7:01:00 PM
Chloroform	ND	0.744		ug/m3	1	3/25/2008 7:01:00 PM
Chloromethane	1.01	0.315		ug/m3	1	3/25/2008 7:01:00 PM
cis-1,2-Dichloroethene	ND	0.604		ug/m3	1	3/25/2008 7:01:00 PM
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	3/25/2008 7:01:00 PM
Cyclohexane	ND	0.525		ug/m3	1	3/25/2008 7:01:00 PM
Dibromochloromethane	ND	1.30		ug/m3	1	3/25/2008 7:01:00 PM
Ethyl acetate	0.769	0.916	J	ug/m3	1	3/25/2008 7:01:00 PM
Ethylbenzene	0.485	0.662	J	ug/m3	1	3/25/2008 7:01:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC**Date:** 28-Mar-08

CLIENT: GZA GeoEnvironmental of NY
Lab Order: C0803028
Project: 500 Seneca St.
Lab ID: C0803028-004A

Client Sample ID: Ambient office
Tag Number: 424,449
Collection Date: 3/19/2008
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: LL		
Freon 11	1.54	0.857		ug/m3	1	3/25/2008 7:01:00 PM
Freon 113	ND	1.17		ug/m3	1	3/25/2008 7:01:00 PM
Freon 114	ND	1.07		ug/m3	1	3/25/2008 7:01:00 PM
Freon 12	4.78	0.754		ug/m3	1	3/25/2008 7:01:00 PM
Heptane	0.583	0.625	J	ug/m3	1	3/25/2008 7:01:00 PM
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	3/25/2008 7:01:00 PM
Hexane	0.967	0.537		ug/m3	1	3/25/2008 7:01:00 PM
Isopropyl alcohol	ND	0.375		ug/m3	1	3/25/2008 7:01:00 PM
m&p-Xylene	1.37	1.32		ug/m3	1	3/25/2008 7:01:00 PM
Methyl Butyl Ketone	ND	1.25		ug/m3	1	3/25/2008 7:01:00 PM
Methyl Ethyl Ketone	1.08	0.899		ug/m3	1	3/25/2008 7:01:00 PM
Methyl Isobutyl Ketone	0.708	1.25	J	ug/m3	1	3/25/2008 7:01:00 PM
Methyl tert-butyl ether	ND	0.550		ug/m3	1	3/25/2008 7:01:00 PM
Methylene chloride	1.52	0.530		ug/m3	1	3/25/2008 7:01:00 PM
o-Xylene	0.618	0.662	J	ug/m3	1	3/25/2008 7:01:00 PM
Propylene	ND	0.262		ug/m3	1	3/25/2008 7:01:00 PM
Styrene	0.390	0.649	J	ug/m3	1	3/25/2008 7:01:00 PM
Tetrachloroethylene	1.59	1.03		ug/m3	1	3/25/2008 7:01:00 PM
Tetrahydrofuran	ND	0.450		ug/m3	1	3/25/2008 7:01:00 PM
Toluene	2.80	0.575		ug/m3	1	3/25/2008 7:01:00 PM
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	3/25/2008 7:01:00 PM
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	3/25/2008 7:01:00 PM
Trichloroethene	0.437	0.218		ug/m3	1	3/25/2008 7:01:00 PM
Vinyl acetate	ND	0.537		ug/m3	1	3/25/2008 7:01:00 PM
Vinyl Bromide	ND	0.667		ug/m3	1	3/25/2008 7:01:00 PM
Vinyl chloride	ND	0.104		ug/m3	1	3/25/2008 7:01:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-08

CLIENT: GZA GeoEnvironmental of NY
Lab Order: C0803028
Project: 500 Seneca St.
Lab ID: C0803028-005A

Client Sample ID: Ambient basement
Tag Number: 420,56
Collection Date: 3/19/2008
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Vacuum Reading "Hg	-3			"Hg		3/19/2008
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: LL		
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	3/25/2008 7:34:00 PM
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	3/25/2008 7:34:00 PM
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	3/25/2008 7:34:00 PM
1,1-Dichloroethane	ND	0.617		ug/m3	1	3/25/2008 7:34:00 PM
1,1-Dichloroethene	ND	0.605		ug/m3	1	3/25/2008 7:34:00 PM
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	3/25/2008 7:34:00 PM
1,2,4-Trimethylbenzene	ND	0.749		ug/m3	1	3/25/2008 7:34:00 PM
1,2-Dibromoethane	ND	1.17		ug/m3	1	3/25/2008 7:34:00 PM
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	3/25/2008 7:34:00 PM
1,2-Dichloroethane	ND	0.617		ug/m3	1	3/25/2008 7:34:00 PM
1,2-Dichloropropane	ND	0.705		ug/m3	1	3/25/2008 7:34:00 PM
1,3,5-Trimethylbenzene	ND	0.750		ug/m3	1	3/25/2008 7:34:00 PM
1,3-butadiene	ND	0.337		ug/m3	1	3/25/2008 7:34:00 PM
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	3/25/2008 7:34:00 PM
1,4-Dichlorobenzene	ND	0.917		ug/m3	1	3/25/2008 7:34:00 PM
1,4-Dioxane	ND	1.10		ug/m3	1	3/25/2008 7:34:00 PM
2,2,4-trimethylpentane	ND	0.712		ug/m3	1	3/25/2008 7:34:00 PM
4-ethyltoluene	ND	0.750		ug/m3	1	3/25/2008 7:34:00 PM
Acetone	14.1	3.62		ug/m3	5	3/25/2008 8:38:00 PM
Allyl chloride	ND	0.477		ug/m3	1	3/25/2008 7:34:00 PM
Benzene	1.56	0.487		ug/m3	1	3/25/2008 7:34:00 PM
Benzyl chloride	ND	0.877		ug/m3	1	3/25/2008 7:34:00 PM
Bromodichloromethane	ND	1.02		ug/m3	1	3/25/2008 7:34:00 PM
Bromoform	ND	1.58		ug/m3	1	3/25/2008 7:34:00 PM
Bromomethane	ND	0.592		ug/m3	1	3/25/2008 7:34:00 PM
Carbon disulfide	0.538	0.475		ug/m3	1	3/25/2008 7:34:00 PM
Carbon tetrachloride	0.767	0.256		ug/m3	1	3/25/2008 7:34:00 PM
Chlorobenzene	ND	0.702		ug/m3	1	3/25/2008 7:34:00 PM
Chloroethane	ND	0.402		ug/m3	1	3/25/2008 7:34:00 PM
Chloroform	ND	0.744		ug/m3	1	3/25/2008 7:34:00 PM
Chloromethane	1.11	0.315		ug/m3	1	3/25/2008 7:34:00 PM
cis-1,2-Dichloroethene	ND	0.604		ug/m3	1	3/25/2008 7:34:00 PM
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	3/25/2008 7:34:00 PM
Cyclohexane	0.805	0.525		ug/m3	1	3/25/2008 7:34:00 PM
Dibromochloromethane	ND	1.30		ug/m3	1	3/25/2008 7:34:00 PM
Ethyl acetate	1.28	0.916		ug/m3	1	3/25/2008 7:34:00 PM
Ethylbenzene	0.530	0.662	J	ug/m3	1	3/25/2008 7:34:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC**Date:** 28-Mar-08**CLIENT:** GZA GeoEnvironmental of NY**Client Sample ID:** Ambient basement**Lab Order:** C0803028**Tag Number:** 420,56**Project:** 500 Seneca St.**Collection Date:** 3/19/2008**Lab ID:** C0803028-005A**Matrix:** AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
		TO-15				Analyst: LL
Freon 11	1.66	0.857		ug/m3	1	3/25/2008 7:34:00 PM
Freon 113	ND	1.17		ug/m3	1	3/25/2008 7:34:00 PM
Freon 114	ND	1.07		ug/m3	1	3/25/2008 7:34:00 PM
Freon 12	3.77	0.754		ug/m3	1	3/25/2008 7:34:00 PM
Heptane	0.542	0.625	J	ug/m3	1	3/25/2008 7:34:00 PM
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	3/25/2008 7:34:00 PM
Hexane	1.04	0.537		ug/m3	1	3/25/2008 7:34:00 PM
Isopropyl alcohol	ND	0.375		ug/m3	1	3/25/2008 7:34:00 PM
m&p-Xylene	1.32	1.32		ug/m3	1	3/25/2008 7:34:00 PM
Methyl Butyl Ketone	ND	1.25		ug/m3	1	3/25/2008 7:34:00 PM
Methyl Ethyl Ketone	1.11	0.899		ug/m3	1	3/25/2008 7:34:00 PM
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	3/25/2008 7:34:00 PM
Methyl tert-butyl ether	ND	0.550		ug/m3	1	3/25/2008 7:34:00 PM
Methylene chloride	1.20	0.530		ug/m3	1	3/25/2008 7:34:00 PM
o-Xylene	0.574	0.662	J	ug/m3	1	3/25/2008 7:34:00 PM
Propylene	ND	0.262		ug/m3	1	3/25/2008 7:34:00 PM
Styrene	ND	0.649		ug/m3	1	3/25/2008 7:34:00 PM
Tetrachloroethylene	2.21	1.03		ug/m3	1	3/25/2008 7:34:00 PM
Tetrahydrofuran	ND	0.450		ug/m3	1	3/25/2008 7:34:00 PM
Toluene	4.63	0.575		ug/m3	1	3/25/2008 7:34:00 PM
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	3/25/2008 7:34:00 PM
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	3/25/2008 7:34:00 PM
Trichloroethene	0.273	0.218		ug/m3	1	3/25/2008 7:34:00 PM
Vinyl acetate	ND	0.537		ug/m3	1	3/25/2008 7:34:00 PM
Vinyl Bromide	ND	0.667		ug/m3	1	3/25/2008 7:34:00 PM
Vinyl chloride	ND	0.104		ug/m3	1	3/25/2008 7:34:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit

Centek Laboratories, LLC**Date:** 28-Mar-08

CLIENT: GZA GeoEnvironmental of NY
Lab Order: C0803028
Project: 500 Seneca St.
Lab ID: C0803028-006A

Client Sample ID: Outdoor Ambient
Tag Number: 87,187
Collection Date: 3/19/2008
Matrix: AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Vacuum Reading "Hg	-27			"Hg		3/19/2008

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
M.Wittman

Project No.: **21.0056365.20**
Work Order No.: **0803-00100**
Date Received: **03/20/2008**
Date Reported: **03/26/2008**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
03/19/2008	Aqueous	0803-00100 001	Sump



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
M.Wittman

Project Name.: **Former New Era**
Project No.: **21.0056365.20**

Date Received: **03/20/2008**
Date Reported: **03/26/2008**
Work Order No.: **0803-00100**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 03/20/08 via ___GZA courier, ___x UPS, ___FEDEX, or ___hand delivered. The temperature of the ___temperature blank/___x cooler air, was 4.9 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the sample was not preserved.

2. EPA Method 8260 - VOCs

Attach QC 8260 03/21/08 A - Aqueous



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Page 3 of 5

ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor

Buffalo, NY 14203-1415
M. Wittman

Project Name.: **Former New Era**
Project No.: **21.0056365.20**

Date Received: **03/20/2008**
Date Reported: **03/26/2008**
Work Order No.: **0803-00100**

Data Authorized By: _____

NELAC certification, as indicated by the NELAC Lab ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:

% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
CF = Calculation Factor
DO = Diluted Out

Method Key:

Method 8260: The current version of the method is 8260B.
Method 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
Method 6010: The current version of the method is 6010B.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
M.Wittman

Project Name.: **Former New Era**
Project No.: **21.0056365.20**

Date Received: **03/20/2008**
Date Reported: **03/26/2008**
Work Order No.: **0803-00100**

Sample ID: **Sump**
Sample Date: **03/19/2008**

Sample No.: **001**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	03/21/2008
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	03/21/2008
Chloromethane	EPA 8260	<2.0	ug/L	MQS	03/21/2008
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Bromomethane	EPA 8260	<2.0	ug/L	MQS	03/21/2008
Chloroethane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	03/21/2008
Diethylether	EPA 8260	<5.0	ug/L	MQS	03/21/2008
Acetone	EPA 8260	<25	ug/L	MQS	03/21/2008
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	03/21/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	03/21/2008
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
2-Butanone	EPA 8260	<25	ug/L	MQS	03/21/2008
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Chloroform	EPA 8260	1.4	ug/L	MQS	03/21/2008
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	03/21/2008
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Benzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	03/21/2008
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Toluene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	03/21/2008
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
2-Hexanone	EPA 8260	<25	ug/L	MQS	03/21/2008
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	03/21/2008



ANALYTICAL REPORT

GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203-1415
M.Wittman

Project Name.: **Former New Era**
Project No.: **21.0056365.20**

Date Received: **03/20/2008**
Date Reported: **03/26/2008**
Work Order No.: **0803-00100**

Sample ID: **Sump**
Sample Date: **03/19/2008**

Sample No.: **001**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	03/21/2008
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	03/21/2008
o-Xylene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Styrene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Bromoform	EPA 8260	<2.0	ug/L	MQS	03/21/2008
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	03/21/2008
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Naphthalene	EPA 8260	<2.0	ug/L	MQS	03/21/2008
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	03/21/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	94.0	% R	MQS	03/21/2008
***Toluene-D8	EPA 8260	98.0	% R	MQS	03/21/2008
***4-Bromofluorobenzene	EPA 8260	98.4	% R	MQS	03/21/2008
Preparation	EPA 5030B	1.0	CF	MQS	03/21/2008

EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	3/21/2008	
Volatile Organics	Conc. ug/L	Acceptance Limit
dichlorodifluoromethane	< 1.0	< 1.0
chloromethane	< 1.0	< 1.0
vinyl chloride	< 0.5	< 0.5
bromomethane	< 1.0	< 1.0
chloroethane	< 0.5	< 0.5
trichlorofluoromethane	< 1.0	< 1.0
diethyl ether	< 2.5	< 2.5
acrolein	< 13	< 13
acetone	< 13	< 13
1,1-dichloroethene	< 0.5	< 0.5
FREON-113	< 1.0	< 1.0
iodomethane	< 0.5	< 0.5
carbon disulfide	< 5.0	< 5.0
dichloromethane	< 1.0	< 1.0
tert-butyl alcohol (TBA)	< 13	< 13
acrylonitrile	< 0.5	< 0.5
methyl-tert-butyl-ether	< 0.5	< 0.5
trans-1,2-dichloroethene	< 0.5	< 0.5
1,1-dichloroethane	< 0.5	< 0.5
di-isopropyl ether (DIPE)	< 1.0	< 1.0
ethyl tert-butyl ether (EtBE)	< 1.0	< 1.0
vinyl acetate	< 13	< 13
2-butanone	< 13	< 13
2,2-dichloropropane	< 0.5	< 0.5
cis-1,2-dichloroethene	< 0.5	< 0.5
chloroform	< 0.5	< 0.5
bromochloromethane	< 0.5	< 0.5
tetrahydrofuran	< 5.0	< 5.0
1,1,1-trichloroethane	< 0.5	< 0.5
1,1-dichloropropene	< 0.5	< 0.5
carbon tetrachloride	< 0.5	< 0.5
1,2-dichloroethane	< 0.5	< 0.5
benzene	< 0.5	< 0.5
tert-amyl methyl ether (TAME)	< 1.0	< 1.0
trichloroethene	< 0.5	< 0.5
1,2-dichloropropane	< 0.5	< 0.5
bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
dibromomethane	< 0.5	< 0.5
4-methyl-2-pentanone	< 13	< 13
cis-1,3-dichloropropene	< 0.5	< 0.5
toluene	< 0.5	< 0.5
trans-1,3-dichloropropene	< 1.0	< 1.0
1,1,2-trichloroethane	< 0.5	< 0.5
2-hexanone	< 13	< 13
1,3-dichloropropane	< 0.5	< 0.5
tetrachloroethene	< 0.5	< 0.5
dibromochloromethane	< 0.5	< 0.5
1,2-dibromoethane (EDB)	< 1.0	< 1.0
chlorobenzene	< 0.5	< 0.5
1,1,1,2-tetrachloroethane	< 0.5	< 0.5
ethylbenzene	< 0.5	< 0.5
1,1,2,2-tetrachloroethane	< 0.5	< 0.5
m&p-xylene	< 1.0	< 1.0
o-xylene	< 0.5	< 0.5
styrene	< 0.5	< 0.5
bromoform	< 1.0	< 1.0
isopropylbenzene	< 0.5	< 0.5
1,2,3-trichloropropane	< 0.5	< 0.5
bromobenzene	< 0.5	< 0.5
n-propylbenzene	< 0.5	< 0.5
2-chlorotoluene	< 0.5	< 0.5
1,3,5-trimethylbenzene	< 0.5	< 0.5
trans-1,4-dichloro-2-butene	< 1.0	< 1.0
4-chlorotoluene	< 0.5	< 0.5
tert-butyl-benzene	< 0.5	< 0.5
1,2,4-trimethylbenzene	< 0.5	< 0.5
sec-butyl-benzene	< 0.5	< 0.5
p-isopropyltoluene	< 0.5	< 0.5
1,3-dichlorobenzene	< 0.5	< 0.5
1,4-dichlorobenzene	< 0.5	< 0.5
n-butylbenzene	< 0.5	< 0.5
1,2-dichlorobenzene	< 0.5	< 0.5
1,2-dibromo-3-chloropropane	< 2.5	< 2.5
1,2,4-trichlorobenzene	< 0.5	< 0.5
hexachlorobutadiene	< 0.5	< 0.5
naphthalene	< 1.0	< 1.0
1,2,3-trichlorobenzene	< 0.5	< 0.5

Laboratory Control Sample

Date Analyzed:	3/21/2008		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	94.1	70-130	ok
chloromethane	78.7	70-130	ok
vinyl chloride	87.6	70-130	ok
bromomethane	90.0	70-130	ok
chloroethane	87.5	70-130	ok
trichlorofluoromethane	101	70-130	ok
diethyl ether	102	70-130	ok
acrolein	83.2	70-130	ok
acetone	80.8	70-130	ok
1,1-dichloroethene	103	70-130	ok
FREON-113	121	70-130	ok
iodomethane	116	70-130	ok
carbon disulfide	96.4	70-130	ok
dichloromethane	95.0	70-130	ok
tert-butyl alcohol (TBA)	107	70-130	ok
acrylonitrile	81.8	70-130	ok
methyl-tert-butyl-ether	97.2	70-130	ok
trans-1,2-dichloroethene	102	70-130	ok
1,1-dichloroethane	88.7	70-130	ok
di-isopropyl ether (DIPE)	83.1	70-130	ok
ethyl tert-butyl ether (EtBE)	90.6	70-130	ok
vinyl acetate	81.7	70-130	ok
2-butanone	101	70-130	ok
2,2-dichloropropane	92.3	70-130	ok
cis-1,2-dichloroethene	102	70-130	ok
chloroform	96.0	70-130	ok
bromochloromethane	118	70-130	ok
tetrahydrofuran	75.6	70-130	ok
1,1,1-trichloroethane	99.5	70-130	ok
1,1-dichloropropene	93.8	70-130	ok
carbon tetrachloride	104	70-130	ok
1,2-dichloroethane	92.9	70-130	ok
benzene	95.1	70-130	ok
tert-amyl methyl ether (TAME)	100	70-130	ok
trichloroethene	113	70-130	ok
1,2-dichloropropane	92.7	70-130	ok
bromodichloromethane	97.4	70-130	ok
1,4-Dioxane	89.5	70-130	ok
dibromomethane	126	70-130	ok
4-methyl-2-pentanone	80.1	70-130	ok
cis-1,3-dichloropropene	99.7	70-130	ok
toluene	102	70-130	ok
trans-1,3-dichloropropene	94.7	70-130	ok
1,1,2-trichloroethane	106	70-130	ok
2-hexanone	84.3	70-130	ok
1,3-dichloropropane	103	70-130	ok
tetrachloroethene	125	70-130	ok
dibromochloromethane	115	70-130	ok
1,2-dibromoethane (EDB)	111	70-130	ok
chlorobenzene	110	70-130	ok
1,1,1,2-tetrachloroethane	116	70-130	ok
ethylbenzene	109	70-130	ok
1,1,2,2-tetrachloroethane	102	70-130	ok
m&p-xylene	104	70-130	ok
o-xylene	90.7	70-130	ok
styrene	97.4	70-130	ok
bromoform	106	70-130	ok
isopropylbenzene	93.7	70-130	ok
1,2,3-trichloropropane	97.4	70-130	ok
bromobenzene	107	70-130	ok
n-propylbenzene	90.9	70-130	ok
2-chlorotoluene	91.0	70-130	ok
1,3,5-trimethylbenzene	94.0	70-130	ok
trans-1,4-dichloro-2-butene	79.1	70-130	ok
4-chlorotoluene	92.6	70-130	ok
tert-butyl-benzene	96.6	70-130	ok
1,2,4-trimethylbenzene	93.9	70-130	ok
sec-butyl-benzene	92.6	70-130	ok
p-isopropyltoluene	97.6	70-130	ok
1,3-dichlorobenzene	110	70-130	ok
1,4-dichlorobenzene	110	70-130	ok
n-butylbenzene	92.2	70-130	ok
1,2-dichlorobenzene	106	70-130	ok
1,2-dibromo-3-chloropropane	92.4	70-130	ok
1,2,4-trichlorobenzene	109	70-130	ok
hexachlorobutadiene	108	70-130	ok
naphthalene	97.9	70-130	ok
1,2,3-trichlorobenzene	109	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	100	70-130	DIBROMOFLUOROMETHANE	99.8	70-130	ok
1,2-DICHLOROETHANE-D4	101	70-130	1,2-DICHLOROETHANE-D4	102	70-130	ok
TOLUENE-D8	98.5	70-130	TOLUENE-D8	98.7	70-130	ok
4-BROMOFLUOROBENZENE	99.6	70-130	4-BROMOFLUOROBENZENE	102	70-130	ok
1,2-DICHLOROBENZENE-D4	108	70-130	1,2-DICHLOROBENZENE-D4	109	70-130	ok

(for lab use only)

[illegible]

APPENDIX C

FIELD BOREHOLE LOGS & WELL/PIEZOMETER COMPLETION DETAILS

Project No: 0270-012-001

Borehole Number: MW-1

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: BMG

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface					0 ppm 1000 2000		
	-1.0	Silty Gravel with Sand and Fill Gray, moist, angular fine to coarse gravel with some fine to coarse sand, little cinders and ash, and few nonplastic fines, dense	SS1	11	1.7	●	0.1		
	1.0	Lean Clay with Fill Brown, moist, medium plasticity fines with few fine sand, trace cinders, stiff							
5.0	-5.0	Fill Gray, moist, concrete with little brick, and few medium plasticity fines, dense	SS2	23	1.7	●	0.1		
	-6.0	Lean Clay with Fill Brown, moist, medium plastic fines with few fine sand, trace cinders fragments, stiff							
	6.0								
10.0	-10.0	Lean Clay Reddish brown, moist, medium plasticity fines, soft	SS3	8	1.8	●	0.1		
	10.0	Lean Clay with Sand and Gravel Grayish brown, wet, low plasticity fines with some fine sand and little rounded fine to coarse gravel, soft							
	-10.5								
	10.5								
	-13.0	Refusal at 13' suspected rock							
	13.0	End of Borehole							
15.0									
20.0									

Drilled By: Earth Dimensions

Drill Rig Type: CME 550

Drill Method: Hollow Stem Auger - Standard Split-Spoon Sampling

Comments: 12.8' hit hard rock like surface

Drill Date(s): 10-4-13

Hole Size: 8.5"

Stick-up: NA

Datum: Mean Sea Level

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: MW-2

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: BMG

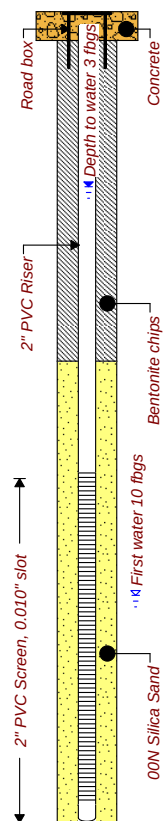
Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface					0		
	0.0	Silty Gravel with Sand							
	-0.5	Gray, moist, angular fine to coarse gravel with some fine to coarse sand and few non-plastic fines, dense	SS1	6	1.5	0.1			
	0.5	Fill							
		Black, moist, cinders and ash with few medium plasticity fines and trace brick, medium dense							
5.0	-5.0	Lean Clay with Fill							
	5.0	Dark brown, moist, medium plasticity fines with trace wood and ash, stiff, looks reworked	SS2	5	1.9	0.2			
	-6.0	Lean Clay							
	6.0	Brown, moist, medium plasticity fines, stiff							
10.0	-10.0	Lean Clay with Sand and Gravel							
	10.0	Yellowish brown, wet, low plasticity fines with some fine sand and little rounded fine to coarse gravel, soft	SS3	19	1.7	0.1			
	-13.9	Refusal at 13.9' suspected rock							
	13.9	End of Borehole							
15.0									
20.0									



Drilled By: Earth Dimensions

Drill Rig Type: CME 550

Drill Method: Hollow Stem Auger - Standard Split-Spoon Sampling

Comments: at 9' hit rock/bolder when drilling, 13.9' grinding to advance auger

Drill Date(s): 10-3-13

Hole Size: 8.5"

Stick-up: NA

Datum: Mean Sea Level

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: MW-3

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: BMG

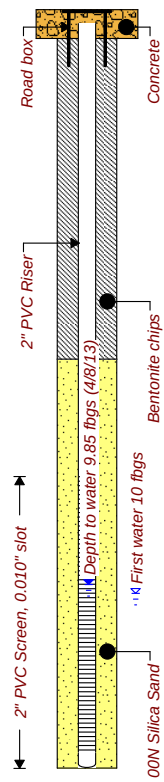
Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 1000 2000	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0 -0.5 0.5	Concrete and subbase Lean Clay with Fill Brown, moist, medium plasticity fines with few fine sand, trace tile, stiff	SS1	4	1.3		0.0		
5.0	-5.0 5.0	Lean Clay Reddish brown, moist, medium plasticity fines, stiff	SS2	13	2.0		0.0		
10.0	-10.0 10.0	Lean Clay with Sand and Gravel Grayish brown, wet, low plasticity fines with some fine sand and little rounded fine to coarse gravel, soft, no odor	SS3	2	2.0		1.6		
	-13.0 13.0	Refusal at 13' suspected rock End of Borehole	SS4	50/0.1	0.01				
15.0									
20.0									



Drilled By: Earth Dimensions

Drill Rig Type: CME 550

Drill Method: Hollow Stem Auger - Standard Split-Spoon Sampling

Comments:

Drill Date(s): 10-3-13

Hole Size: 8.5"

Stick-up: NA

Datum: Mean Sea Level

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: MW-4

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: BMG

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



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2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface					0		
	-1.0	Silty Gravel with Sand Gray, moist, angular fine to coarse gravel with some fine to coarse sand and few nonplastic fines, dense	SS1	15	1.3		0.0		
	1.0	Lean Clay with few Fill Brown, moist, medium plastic fines with few fine sand, trace brick fragments, stiff							
5.0	-5.0	Lean Clay Reddish brown, moist, medium plasticity fines, stiff to soft at 6'	SS2	12	2.0		0.1		
	5.0								
10.0	-10.0	Lean Clay with Sand and Gravel Grayish brown, wet, low plasticity fines with some fine sand and little rounded fine to coarse gravel, soft	SS3	2	1.8		0.1		
	10.0								
15.0	-15.0	Well Graded Gravel with Silt and Sand Gray, wet, rock fragments with some fine to coarse sand and little low plastic fines, very dense	SS4	117	0.5		5.3		
	15.0	Refusal at 15.5' suspected rock							
	-15.5	End of Borehole							
	15.5								
20.0									

Drilled By: Earth Dimensions

Drill Rig Type: CME 550

Drill Method: Hollow Stem Auger - Standard Split-Spoon Sampling

Comments:

Drill Date(s): 10-3-13

Hole Size: 8.5"

Stick-up: NA

Datum: Mean Sea Level

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: MW-5

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

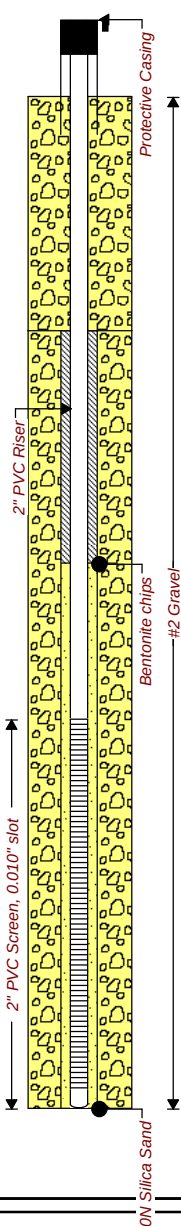
Logged By: JJR

Site Location: 500 Seneca Street, Buffalo, New York

Checked By: NTM



Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-1.0									
	0.0 0.0	Ground Surface							
4.0									
9.0									
	-13.0 13.0	End of Borehole							
14.0									

Drilled By: Earth Dimensions, Inc.
Drill Rig Type: Diedrich D120
Drill Method: Continuous SS with 4 1/4 inch HSA.
Comments:
Drill Date(s): 4-8-15

Hole Size: 8 1/4"
Stick-up: NA
Datum: Mean Sea Level
Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: MW-6

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: JJR

Site Location: 500 Seneca Street, Buffalo, New York

Checked By: NTM



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		Augered to 4 fbgs.							
5.0	-4.0 4.0	Fill Material Light brown, moist, mostly fine sand, little brick, trace non-plastic fines, medium dense, loose when disturbed	S1	21	0.40		0.0 0.0 0.0		
	-6.0 6.0	Augered to 9 fbgs.							
10.0	-9.0 9.0	Sandy Silt Reddish brown, wet, mostly non-plastic fines, little fine sand, medium dense	S2	15	1.80		0.0 0.0 0.0		
	-10.5 10.5 -11.0 11.0	Silty Sand with Gravel Reddish brown, wet, mostly fine sand, little non-plastic fines, little sub-rounded fine gravel, medium dense Augered to 13.5 fbgs.							
	-13.0 13.0 -13.5 13.5	Auger Refusal at 13.5 fbgs.							
		End of Borehole							
15.0									
20.0									

Drilled By: Earth Dimensions, Inc.
Drill Rig Type: Diedrich D120
Drill Method: Continuous SS with 4 1/4 inch HSA.
Comments:
Drill Date(s): 4-9-15

Hole Size: 8 1/4"
Stick-up: NA
Datum: Mean Sea Level
Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: MW-7

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: JJR

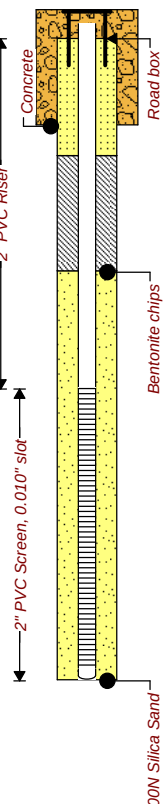
Site Location: 500 Seneca Street, Buffalo, New York

Checked By: NTM



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		Augered to 4 fbgs.							
5.0	-4.0 4.0	Sandy Silt Reddish brown, moist, mostly non-plastic fines, little fine sand, loose	S1	6	2.3		0.0 0.0 0.0		
	-6.0 6.0	Augered to 9 fbgs.							
10.0	-9.0 9.0	Poorly Graded Sand with Silt Light brown, wet, mostly fine sand, little fine gravel (sub-rounded), trace non-plastic fine sand, very dense, spoon refusal at 10.4 fbgs.	S2	52	1.2		0.0 0.0		
	-10.4 10.4	Augered to 11.5 fbgs.							
	-11.5 11.5	Auger refusal at 11.5 fbgs.							
		End of Borehole							
15.0									
20.0									



Drilled By: Earth Dimensions, Inc.
Drill Rig Type: Diedrich D120
Drill Method: Continuous SS with 4 1/4 inch HSA.
Comments:
Drill Date(s): 4-8-15

Hole Size: 8 1/4"
Stick-up: NA
Datum: Mean Sea Level
Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-1/TW-1

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

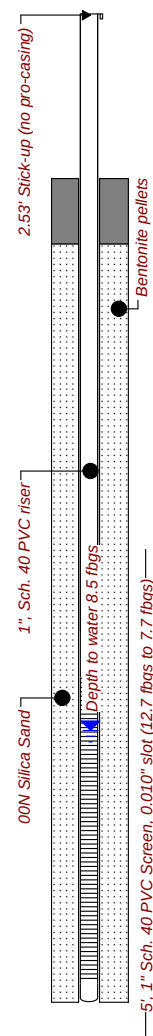
Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-3.0									
	0.0	Ground Surface							
	0.0	Concrete							
	-0.5								
	0.5	Fill Black/Brown, moist, mostly fine sand, some non-plastic fines, few angular coarse gravels, cinders, orange brick fragment, medium dense, loose when disturbed.					0.0		
2.0									
	-3.0		C1	NA	1.5		2.2		
	3.0	Lean Clay with Fill Reddish brown, moist, medium plasticity fines, few fine sand, medium toughness, medium dry strength, soft, orange brick fragment orange brick fragments and ciders.							
	-4.5								
	4.5	Sandy Lean Clay Reddish Brown, moist, mostly medium plastic fines, little fine sand, trace sub-rounded fine gravels, medium toughness, medium dry strength, stiff.	C2	NA	1.9		0.3		
7.0									
	-8.5								
	8.5	As above, Brown, wet (8.5fbgs), mostly low plasticity fines.	C3	NA	1.0		0.4		
12.0									
	-12.5		C4	NA	0.2				
	12.5	No recovery. Refusal at 12.7 fbgs.							
		End of Borehole							



Drilled By: DDS Environmental Construction
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments: Assumed Top of Bedrock 12.7-fbgs
Drill Date(s): 3-6-14

Hole Size: 3-inch
Stick-up: NA
Datum: Mean Sea Level.

Sheet: 1 of 1

Borehole Number: SB-2

A.K.A.:

Logged By: TAB

Checked By: CZB



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[illegible]

Hole Size: 3-inch
Stick-up: NA
Datum: Mean Sea Level

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-3

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Concrete							
	-0.6								
	0.6	Fill Black, moist, mostly fine sand, some non-plastic fines, few angular coarse gravels, cinders, brick fragments, medium dense, loose when disturbed.	C1	NA	1.2		1.1		
								Sample location	
5.0	-4.6								
	4.6	Lean Clay Reddish brown, moist, medium plasticity fines, few fine sand, medium toughness, medium dry strength, stiff.	C2	NA	3.5		2.2		
	-8.6								
	8.6	Sandy Lean Clay Brown, wet (8.5 fbgs), mostly low plasticity fines, some fine sand, few sub-rounded fine gravels, medium toughness, medium dry strength, soft.	C3	NA	1.8		2.5		
10.0									
	-12.6								
	12.6	As above.	C4	NA	3.3		1.9		
	-13.1	Refusal at 13.1 fbgs.							
	13.1	End of Borehole							
15.0									

Depth to water 8.5 fbgs

Drilled By: DDS Environmental Construction
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments: Assumed Top of Bedrock 13.1-fbgs
Drill Date(s): 3-6-14

Hole Size: 3-inch
Stick-up: NA
Datum: Mean Sea Level.
Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-4

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Concrete							
	-0.5								
	0.5	Fill Black, moist, mostly fine sand, some non-plastic fines, few angular coarse gravels, cinders, yellow brick fragment, medium dense, loose when disturbed.	C1	NA	1.0		0.0	Sample location	
	-4.5								
5.0	4.5	Lean Clay with Sand Reddish brown, moist, medium plasticity fines, little fine sand, medium toughness, medium dry strength, stiff.	C2	NA	3.1		3.3		
							3.0		
	-8.5								
	8.5	Sandy Lean Clay Reddish Brown, wet (8.5 fbgs), mostly low plasticity fines, little fine sand, few sub-rounded fine gravels, medium toughness, medium dry strength, stiff.	C3	NA	3.3		2.1		
10.0							2.4		
	-12.5						0.0		
	12.5	As above.	C4	NA	0.5				
	-13.0	Refusal at 13.0 fbgs suspected rock							
	13.0	End of Borehole							
15.0									

Depth to water 8.5 fbgs

Drilled By: DDS Environmental Construction
Drill Rig Type: Geoprobe66DT
Drill Method: Direct Push
Comments: Assumed Top of Bedrock 13.0-fbgs
Drill Date(s): 3-6-14

Hole Size: 3-inch
Stick-up: NA
Datum: Mean Sea Level.
Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-5

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 1000 2000	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Concrete							
	-0.5								
	0.5	Fill Black, moist, mostly fine sand, some non-plastic fines, few angular coarse gravels, cinders, brick fragments, medium dense, loose when disturbed.					0.0		
	-2.5								
	2.5	Lean Clay Brow to black, moist, medium plasticity fines, few fine sand, medium toughness, medium dry strength, stiff, slight petroleum-like odor.	C1	NA	2.1		122		
	-4.5								
	4.5	As above no black coloring, strong petroleum-like odor.					1147	Sample location	
5.0									
	-6.5								
	6.5	As above no petroleum-like odor.	C2	NA	3.6		15		
	-8.5								
	8.5	Sandy Lean Clay Brown, wet (8.5 fbgs), mostly low plasticity fines, some fine sand, few sub-rounded fine gravels, medium toughness, medium dry strength, soft.					0.0		
10.0									
	-12.0								
	12.0		C3	NA	2.9		0.0		
	-12.5	Refusal at 12.5 fbgs.							
	12.5	End of Borehole							
15.0									

Depth to water 8.5 fbgs

Drilled By: DDS Environmental Construction
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments: Assumed Top of Bedrock 12.5-fbgs
Drill Date(s): 3-6-14

Hole Size: 3-inch
Stick-up: NA
Datum: Mean Sea Level.
Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-6

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		Fill Black/brown, moist, mostly low plasticity fines, with some fine sand, little angular fine gravels, cinders, slag, brick fragments, medium dense, loose when disturbed.	C1	NA	3.2		0.0		
							0.0		
	-4.0 4.0	As above.					0.0		
5.0			C2	NA	2.8		0.0	Sample location	
	-7.0 7.0	Lean Clay Reddish brown, moist, medium plasticity fines, few fine sand, with orange brick and slag, medium toughness, medium dry strength, stiff.					0.0		
	-8.0 8.0	Sandy Lean Clay Brown, wet (8.0 fbgs), mostly medium plastic fines grading to low plasticity fines, some fine sand, few sub-rounded fine gravels, medium toughness, medium dry strength, soft.	C3	NA	3.3		0.0		
10.0							0.0		
	-12.0 12.0	As above.	C4	NA	2.4		0.0		
	-14.0 14.0	Refusal at 14.0 fbgs.							
		End of Borehole							
15.0									

Depth to water 8.0 fbgs.

Drilled By: DDS Environmental Construction
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments: Assumed Top of Bedrock 14.0-fbgs
Drill Date(s): 3-6-14

Hole Size: 3-inch
Stick-up: NA
Datum: Mean Sea Level.

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-7

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	-1.0	Fill Black/grey, moist, mostly fine sand, some non-plastic fines, little angular fine gravels, cinders, slag, brick fragments, medium dense, loose when disturbed.					0.0		
	1.0	Lean Clay with Fill Reddish brown, moist, medium plasticity fines, few fine sand, with orange brick and slag, medium toughness, medium dry strength, stiff.	C1	NA	3.2		0.0	Sample location	
	-4.0						0.0		
	4.0	Lean Clay with Sand Reddish brown, moist, medium plasticity fines, little fine sand, medium toughness, medium dry strength, stiff.	C2	NA	2.8		0.0		
5.0							0.0		
	-8.0	As above					0.0		
	8.0						0.0		
	-9.0	Sandy Lean Clay Brown, wet (9.0 fbgs), mostly low plasticity fines, some fine sand, few sub-rounded fine gravels, medium toughness, medium dry strength, soft.	C3	NA	3.3		0.0		
10.0	9.0						0.0		
	-12.0						0.0		
	12.0	As above. Refusal at 14.0 fbgs.	C4	NA	2.4		0.0		
	-14.0						0.0		
	14.0	End of Borehole							
15.0									

Depth to water 9.0 fbgs.

Drilled By: DDS Environmental Construction
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments: Assumed Top of Bedrock 14.0-fbgs
Drill Date(s): 3-6-14

Hole Size: 3-inch
Stick-up: NA
Datum: Mean Sea Level.

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-8

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		Fill Black/brown, moist, mostly low plasticity fines, with some fine sand, little angular fine gravels, cinders, slag, brick fragments, medium dense, loose when disturbed.	C1	NA	2.0		0.4		
		As above.	C2	NA	1.1		0.0		
	-4.0 4.0						0.5	Sample location	
		Sandy Lean Clay Brown, wet (8.0 fbgs), mostly medium plastic fines grading to low plasticity fines, some fine sand, few sub-rounded fine gravels, medium toughness, medium dry strength, soft.	C3	NA	3.3		0.0		
	-8.0 8.0						0.2		
		Refusal at 12.0 fbgs..							
	-11.5 11.5 -12.0 12.0	End of Borehole							
15.0									

Depth to water 8.0 fbgs.

Drilled By: DDS Environmental Construction
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments: Assumed Top of Bedrock 12.0-fbgs
Drill Date(s): 3-6-14

Hole Size: 3-inch
Stick-up: NA
Datum: Mean Sea Level.
Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-9

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		Fill Black/brown, moist, mostly low plasticity fines, with some fine sand, little angular fine gravels, cinders, slag, brick fragments, medium dense, loose when disturbed.	C1	NA	3.1		0.0		
							0.0	Sample Location	
	-4.0 4.0	Lean Clay with Fill Reddish brown, moist, medium plasticity fines, few fine sand, medium toughness, medium dry strength, stiff, peice of rail road tie in shoe.	C2	NA	2.0		3.0		
5.0		Equipment refusal at 6.0 fbgs.							
	-6.0 6.0	End of Borehole							
10.0									

Drilled By: DDS Environmental Construction
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments: Equipment refusal at 6.0 fbgs.
Drill Date(s): 3-6-14

Hole Size: 3-inch
Stick-up: NA
Datum: Mean Sea Level.
Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-10/TW-2

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: PWW

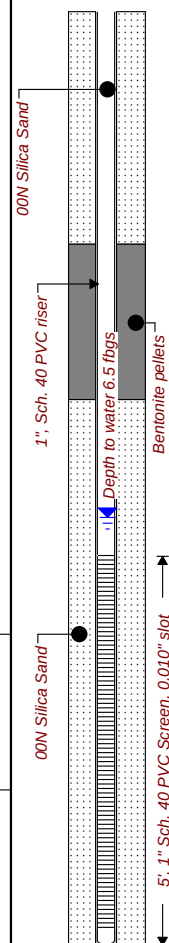
Site Location: 500 Seneca Street, Buffalo, New York

Checked By: CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Concrete							
	-0.5								
	0.5	Lean Clay Brown, moist, mostly medium plasticity fines, trace fine sand, firm, massive.					0.0		
			S-1	NA	2.9		0.0		
							0.0		
	-4.0						0.0		
	4.0	As above, moist to wet (6.5').					0.0		
5.0			S-2	NA	4.0		0.0		
							9.7		
	-8.0						2.4		
	8.0	As above.					0.0		
10.0	-10.0	Sandy Lean Clay with Gravel Brown, wet, mostly medium plasticity fines, some fine sand, few subrounded fine, firm, massive, Refusal at 12.0 fbgs.	S-3	NA	4.0				
	-12.0								
	12.0	End of Borehole							
15.0									



Drilled By: DDS Companies

Drill Rig Type: Track Mounted Geoprobe 66DT

Drill Method: Direct Push

Comments: Assumed Top of Bedrock 12.0 fbgs.

Drill Date(s): 4-2-14

Hole Size: 3"

Stick-up: NA

Datum: Mean Sea Level

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-11

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: PWW

Site Location: 500 Seneca Street, Buffalo, New York

Checked By: CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Concrete							
	-0.5								
	0.5	Brick Orange brick.					0.0		
	-2.0								
	2.0	Lean Clay Brown, moist, mostly medium plasticity fines, trace fine sand, firm, massive.	S-1	NA	2.7		0.0		
	-4.0								
	4.0	As above, moist to wet (5.0 fbgs)					0.0		
5.0									
	-8.0								
	8.0	As above.	S-2	NA	4.0		0.0		
	-8.0								
	8.0	As above.					0.0		
	-8.0								
	8.0	As above.	S-3	NA	4.0		0.0		
10.0									
	-12.0								
	12.0	Lean Clay with Gravel Brown, moist, mostly medium plasticity fines, trace fine sand, some sub-rounded gravel, firm, massive.	S-4	NA	1.3		0.0		
	-13.5								
	13.5	Refusal at 13.5 fbgs.					0.0		
		End of Borehole							
15.0									

Depth to water 5.0 fbgs.

Drilled By: DDS Companies

Drill Rig Type: Track Mounted Geoprobe 66DT

Drill Method: Direct Push

Comments: Assumed Top of Bedrock 12.7 fbgs.

Drill Date(s): 4-2-14

Hole Size: 3"

Stick-up: NA

Datum: Mean Sea Level

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-12

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: PWW

Site Location: 500 Seneca Street, Buffalo, New York

Checked By: CZB



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SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Concrete							
	-0.5	Brick Fill							
	0.5	Orange Brick.					0.0		
	-2.0	Lean Clay	S-1	NA	2.7		0.0		
	2.0	Brown, moist, mostly medium plasticity fines, trace fine sand, firm, massive					0.0		
	-4.0	As above, moist to wet (5.0 fbgs).					0.0	Sample Location	
	4.0		S-2	NA	4.0		0.0		
	-8.0	As above.					0.0		
	8.0		S-3	NA	4.0		0.0		
	-12.0	As above.					0.0		
	12.0		S-4	NA	2.5		0.0		
	-14.5	Refusal at 14.5 fbgs.					0.0		
	14.5						0.0		
15.0		End of Borehole							

Depth to water 5.0 fbgs.

Drilled By: DDS Companies

Drill Rig Type: Track Mounted Geoprobe 66DT

Drill Method: Direct Push

Comments: Assumed Top of Bedrock 14.5 fbgs.

Drill Date(s): 4-2-14

Hole Size: 3"

Stick-up: NA

Datum: Mean Sea Level

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-13/TW-3

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

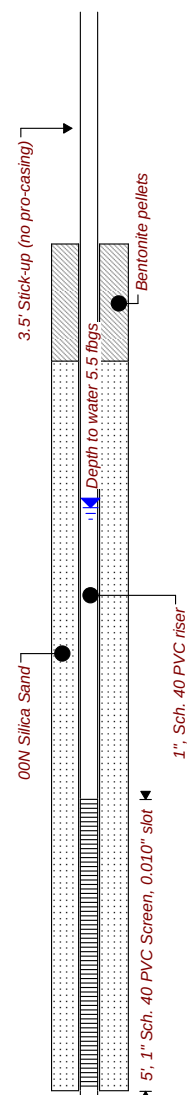
Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
-3.0									
	0.0	Ground Surface							
	0.0	Concrete							
	-0.6								
	0.6	Sandy Lean Clay with Fill Black/Reddish brown, moist, mostly medium plastic fines, some fine sand, some cinders, stiff.	C1	NA	1.0		0.0		
2.0							0.0		
	-4.6						0.0		
	4.6	As above, orange brick, wet lense from (5.5 to 6.0fbgs)	C2	NA	3.0		0.0		
7.0							0.0		
	-7.0						0.0		
	7.0	Lean Clay Brown, moist, mostly medium plasticity fines, little fine sand, medium toughness, medium dry strength, stiff. As above.	C3	NA	4.0		0.0		
	-8.0						0.0		
	8.0						0.0		
12.0							0.0		
	-12.0						0.0		
	12.0	Sandy Lean Clay Grey, wet (12.0 fbgs), mostly medium plastic fines, some fine sand, few sub-rounded fine gravels, medium toughness, medium dry strength.	C4	NA	2.4		0.0		
		Refusal at 15.5 fbgs.					0.0		
	-15.5						0.0		
	15.5	End of Borehole							
17.0									



Drilled By: TREC Environmental Inc.

Drill Rig Type: Geoprobe 54LT

Drill Method: Direct Push

Comments: Assumed Top of Bedrock 15.5-fbgs

Drill Date(s): 4-8-14

Hole Size: 3-inch

Stick-up: NA

Datum: Mean Sea Level.

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-14

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Concrete and Brick Concrete and orange brick with some cinders.					0.0		
	-1.0						0.0	Sample Location	
	1.0	Lean Clay Reddish brown, moist, medium plasticity fines, few fine sand, trace cinders, medium toughness, medium dry strength, stiff.	C1	NA	3.2		0.0	Sample Location	
	-4.0						0.0		
	4.0	As above, no cinders.					0.0		
5.0							0.0		
			C2	NA	2.8		0.0		
							0.0		
	-8.0						0.0		
	8.0	As above, wet (8.0 fbgs)					0.0		
							0.0		
10.0							0.0		
			C3	NA	3.3		0.0		
							0.0		
	-12.0						0.0		
	12.0	As above.					0.0		
							0.0		
			C4	NA	2.3		0.0		
							0.0		
15.0							0.0		
							0.0		
	-16.0						0.0		
	16.0		C5	NA	0.6		0.0		
	-16.6	Sandy Lean Clay Grey, mostly medium plastic fines, some fine sand trace coarse sand, medium toughness medium dry strength. Refusal at 16.6 fbgs.					0.0		
	16.6						0.0		
		End of Borehole							
20.0									

Depth to water 8.0 fbgs.

Drilled By: TREC Environmental Inc.

Drill Rig Type: Geoprobe 54LT

Drill Method: Direct Push

Comments: Assumed Top of Bedrock 16.6-fbgs

Drill Date(s): 4-8-14

Hole Size: 3-inch

Stick-up: NA

Datum: Mean Sea Level.

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-15

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



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Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Concrete							
	-0.4								
	0.4	Silty Sand with Gravel and Fill							
	-0.8	Brown/Dark grey, moist, mostly fine sand, some non-plastic fines, medium dense, loose when disturbed, with slag brick and cinders.						Sample Location	
	0.8								
		Lean Clay							
		Reddish brown, moist, medium plasticity fines, little fine sand, medium toughness, medium dry strength, grey fine sand partings, laminated, stiff.	C1	NA	3.4		0.0		Sample Location
							0.0		
	-4.0	As above							
	4.0								
5.0							0.0		
			C2	NA	0.6				
							0.0		
	-7.0								
	7.0	Sandy Lean Clay							
		Grey, wet (7.0 fbgs), mostly medium plastic fines, some fine sand, trace coarse sand, medium toughness medium dry strength, stiff.					0.0		
	-8.0	As above.							
	8.0								
			C3	NA	3.1		0.0		
							0.0		
10.0		Refusal at 10.8 fbgs.							
	-10.8								
	10.8	End of Borehole							
15.0									

Depth to water 7.0 fbgs.

Drilled By: TREC Environmental Inc.

Drill Rig Type: Geoprobe 54LT

Drill Method: Direct Push

Comments: Assumed Top of Bedrock 10.8-fbgs

Drill Date(s): 4-8-14

Hole Size: 3-inch

Stick-up: NA

Datum: Mean Sea Level.

Sheet: 1 of 1

Project No: 0270-012-001

Borehole Number: SB-16

Project: 500 Seneca Street Site

A.K.A.:

Client: 500 Seneca Street, LLC

Logged By: TAB

Site Location: 500 Seneca Street, Buffalo, NY

Checked By: CZB



Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 12.5 25	Lab Sample	Well Completion Details or Remarks
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Concrete							
	-0.5	Silty Sand with Gravel and Fill Brown/Dark grey, moist, mostly fine sand, some non-plastic fines, medium dens, loose when disturbed, with slag brick and cinders.					0.0	Sample Location	
	0.5	Lean Clay Reddish brown, moist, medium plasticity fines, little fine sand, medium toughness, medium dry strength, grey fine sand partings, laminated, stiff.	C1	NA	3.8		0.0	Sample Location	
	-4.0	As above							
	4.0								
5.0			C2	NA	3.8		0.0		
	-6.5	Sandy Lean Clay Grey, wet (6.5 fbgs), mostly medium plastic fines, some fine sand, trace coarse sand, medium toughness medium dry strength, stiff.					0.0		
	6.5								
	-8.0	As above.							
	8.0								
	-9.0	Refusal at 9.0 fbgs.	C3	NA	1.4		0.0		
	9.0								
		End of Borehole							
10.0									

Depth to water 6.5 fbgs.

Drilled By: TREC Environmental Inc.

Drill Rig Type: Geoprobe 54LT

Drill Method: Direct Push

Comments: Assumed Top of Bedrock 9.0-fbgs

Drill Date(s): 4-8-14

Hole Size: 3-inch

Stick-up: NA

Datum: Mean Sea Level.

Sheet: 1 of 1

APPENDIX D

FIELD FORMS

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: 500 Seneca
Project No.: 0270-012-001
Client: 500 Seneca

Date: 10/10/13

Instrument Source: ☐ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	0730	Myron L Company Ultra Meter 6P	6213516 ☒ 6212375 ☐	TAB	4.00 7.00 10.01	4.0 7.03 10.0	4.0 7.0 10.0
☒ Turbidity meter	NTU	0730	Hach 2100P Turbidimeter	06120C020523 ☒ 07110C026405 ☐	TAB	< 0.4 20 100 800	0.32 19.8 99.3 804	0.1 20 100 800
☒ Sp. Cond. meter	uS mS	0730	Myron L Company Ultra Meter 6P	6213516 ☒ 6212375 ☐	TAB	1413 mS @ 25 °C	1413	1413
☐ PID	ppm		MinRAE 2000			open air zero _____ ppm Iso. Gas		MIBK response factor = 1.0
☒ Dissolved Oxygen	ppm	073	HACH Model HQ30d	0807000023281 ☒ 10050041867 ☐	TAB	100% Satuartion	✓	100.6% Slip
☐ Particulate meter	mg/m ³					zero air		
☐ Oxygen	%					open air		
☐ Hydrogen sulfide	ppm					open air		
☐ Carbon monoxide	ppm					open air		
☐ LEL	%					open air		
☐ Radiation Meter	uR/H					background area		
☐								

ADDITIONAL REMARKS:

PREPARED BY: TAB
Equipment Calibration Log

DATE: 10/10/13

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: 500 Series
Project No.: 0270-02-001
Client: 500 Series

Date: 10/9/13
Instrument Source: ☐ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	0730	Myron L Company Ultra Meter 6P	6213516 ☒ 6212375 ☐	TAB	4.00 7.00 10.01	4.0 6.96 10.01	4 7 10
☒ Turbidity meter	NTU	0730	Hach 2100P Turbidimeter	06120C020523 ☒ 07110C026405 ☐	TAB	< 0.1 20 100 800	0.13 19.3 99.1 801	0.1 20 100 800
☒ Sp. Cond. meter	uS mS	0730	Myron L Company Ultra Meter 6P	6213516 ☒ 6212375 ☐	TAB	1413 mS @ 25 °C	1413	1413
☐ PID	ppm		MinRAE 2000			open air zero _____ ppm Iso. Gas		MIBK response factor = 1.0
☒ Dissolved Oxygen	ppm	0730	HACH Model HQ30d	0807000023281 ☒ 10050041867 ☐	TAB	100% Saturation	✓	100% 100%
☐ Particulate meter	mg/m ³					zero air		
☐ Oxygen	%					open air		
☐ Hydrogen sulfide	ppm					open air		
☐ Carbon monoxide	ppm					open air		
☐ LEL	%					open air		
☐ Radiation Meter	uR/H					background area		
☐								

ADDITIONAL REMARKS:

PREPARED BY: TAB
Equipment Calibration Log

DATE: 10/9/13

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: 500 Screen RI

Project No.: 0270-012-001

Client: 500 Screen

Date: 3/7/14

Instrument Source: ☒ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	1100	Myron L Company Ultra Meter 6P	6213516 ☐ 6212375 ☒	TAB	4.00 7.00 10.01	4.03 7.04 9.95	4.0 7.0 10.0
☒ Turbidity meter	NTU	1100	Hach 2100P Turbidimeter	06120C020523 ☒ 07110C026405 ☐	TAB	< 0.4 20 100 800	0.4 20.0 99.0 767	0.1 20 100 800
☒ Sp. Cond. meter	uS mS	1100	Myron L Company Ultra Meter 6P	6213516 ☐ 6212375 ☒	TAB	1413 mS @ 25 °C	1414	1413
☐ PID	ppm		MinRAE 2000			open air zero _____ ppm Iso. Gas		MIBK response factor = 1.0
☐ Dissolved Oxygen	ppm		HACH Model HQ30d	0807000023281 ☐ 10050041867 ☐		100% Satuartion		
☐ Particulate meter	mg/m ³					zero air		
☐ Oxygen	%					open air		
☐ Hydrogen sulfide	ppm					open air		
☐ Carbon monoxide	ppm					open air		
☐ LEL	%					open air		
☐ Radiation Meter	uR/H					background area		
☐								

ADDITIONAL REMARKS:

PREPARED BY: TAB
Equipment Calibration Log.xls

DATE: 3/7/14

AIR CANISTER FIELD RECORD

PROJECT INFORMATION:

Project: 500 Seneca St RE
Job No: 0270-012-001
Location: Buffalo NY
Field Staff: TAB
Client: 500 Seneca

SAMPLE I.D.:

SSU-1

WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 8°F
Ambient Air Temp. - P.M.: 8°F
Wind Direction: W
Wind Speed: 15-20
Precipitation: NONE

Size of Canister: 6L
Canister Serial No.: 3290
Flow Controller No.: 3943
Sample Date(s): 2/26/14 - 2/27
Shipping Date:
Sample Type: ☐ Indoor Air ☐ Outdoor Air
☒ Subslab, complete section below ☐ Soil Gas
Soil Gas Probe Depth: ~ 8" inch

FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	<u>233</u>	<u>-30.1</u>	<u>2/26/14</u>	<u>TAB</u>
Field Vacuum Check ¹	<u>237</u>	<u>-30</u>	<u>2/26/14</u>	<u>TAB</u>
Initial Field Vacuum ²	<u>237</u>	<u>-30</u>	<u>2/26/14</u>	<u>TAB</u>
Final Field Vacuum ³	<u>1008</u>	<u>-12</u>	<u>2/27/14</u>	<u>TAB</u>
Duration of Sample Collection				

LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

SUBSLAB SHROUD:

Shroud Helium Concentration: 2.6%
Calculated tubing volume: 9.653 x 3 = 24.13
Purged Tubing Volume Concentration: 0%
Is the purged volume concentration less than or equal to 10% in shroud?

- ☒ YES, continue sampling
☐ NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: TAB

AIR CANISTER FIELD RECORD

PROJECT INFORMATION:

Project: 500 Geneva St RI
Job No: 0270-012-001
Location: Buffalo NY
Field Staff: TAB
Client: 500 Geneva

SAMPLE I.D.:

Dup # 1

WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 8° F
Ambient Air Temp. - P.M.: 8° F
Wind Direction: W
Wind Speed: 15-20
Precipitation: NONE

Size of Canister: 6L
Canister Serial No.: 3759
Flow Controller No.: 3936
Sample Date(s): 2/26/14
Shipping Date:
Sample Type: ☐ Indoor Air ☐ Outdoor Air
☒ Subslab, complete section below ☐ Soil Gas
Soil Gas Probe Depth: ~8-inch

FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	233	-30.1	2/26/14	TAB
Field Vacuum Check ¹	236	-30	2/26/14	TAB
Initial Field Vacuum ²	236	-30	2/26/14	TAB
Final Field Vacuum ³	1010	-11	2/27/14	TAB
Duration of Sample Collection				

LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

SUBSLAB SHROUD:

Shroud Helium Concentration:
Calculated tubing volume: x 3 =
Purged Tubing Volume Concentration:
Is the purged volume concentration less than or equal to 10% in shroud?
☐ YES, continue sampling
☐ NO, Improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: TAB

AIR CANISTER FIELD RECORD

PROJECT INFORMATION:

Project: 500 Screen
Job No: 0270-012-001
Location: Buffalo NY
Field Staff: TAB
Client: 500 Screen

SAMPLE I.D.:

Ambient #1

WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 8°F
Ambient Air Temp. - P.M.: 8°F
Wind Direction: W
Wind Speed: 15-20
Precipitation: NONE

Size of Canister: 6L
Canister Serial No.: 3290
Flow Controller No.: 3943
Sample Date(s): 2/26/14 - 2/27
Shipping Date:
Sample Type: ☒ Indoor Air ☐ Outdoor Air
☐ Subslab, complete section below ☐ Soil Gas
Soil Gas Probe Depth:

FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	<u>233</u>	<u>-30.1</u>	<u>2/26/14</u>	<u>TAB</u>
Field Vacuum Check ¹	<u>234</u>	<u>-30</u>	<u>2/26/14</u>	<u>TAB</u>
Initial Field Vacuum ²	<u>234</u>	<u>-30</u>	<u>2/26/14</u>	<u>TAB</u>
Final Field Vacuum ³	<u>1007</u>	<u>-10</u>	<u>2/27/14</u>	<u>TAB</u>
Duration of Sample Collection				

LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

SUBSLAB SHROUD:

Shroud Helium Concentration:

Calculated tubing volume: x 3 =

Purged Tubing Volume Concentration:

Is the purged volume concentration less than or equal to 10% in shroud?

- ☐ YES, continue sampling
☐ NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

NOTES:

- ¹ Vacuum measured using portable vacuum gauge (provided by Lab)
² Vacuum measured by canister gauge upon opening valve
³ Vacuum measured by canister gauge prior to closing valve

Signed: TAB

AIR CANISTER FIELD RECORD

PROJECT INFORMATION:

Project: 500 Sereen RI
Job No: 0270-012-001
Location: Buffalo NY
Field Staff: TAB
Client: 500 Sereen

SAMPLE I.D.:

SSV-2

WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 80°F
Ambient Air Temp. - P.M.: 80°F
Wind Direction: W
Wind Speed: 10-15
Precipitation: NONE

Size of Canister: 6L
Canister Serial No.: 3477
Flow Controller No.: 3742
Sample Date(s): 2/26/14 - 12/27
Shipping Date:
Sample Type: ☐ Indoor Air ☐ Outdoor Air
☒ Subslab, complete section below ☐ Soil Gas
Soil Gas Probe Depth: ~ 6"

FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	228	-30.1	2/26/14	TAB
Field Vacuum Check ¹	229	-30	2/26/14	
Initial Field Vacuum ²	230	-30	2/26/14	
Final Field Vacuum ³	6014	-3	2/27/14	
Duration of Sample Collection				

LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

SUBSLAB SHROUD:

Shroud Helium Concentration: 3.4%
Calculated tubing volume: 2.5' x 3 = 65.157
Purged Tubing Volume Concentration: 0%
Is the purged volume concentration less than or equal to 10% in shroud?
☒ YES, continue sampling
☐ NO, Improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: TAB

AIR CANISTER FIELD RECORD

PROJECT INFORMATION:

Project: 500 Jensen
Job No: 0270-012-001
Location: Buffalo NY
Field Staff: TAB
Client: 500 Jensen

SAMPLE I.D.:

Ambient 2

WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 8°F
Ambient Air Temp. - P.M.: 8°F
Wind Direction: W
Wind Speed: 15-20
Precipitation: NO

Size of Canister: 6L
Canister Serial No.: 4542
Flow Controller No.: 3040
Sample Date(s): 2/26/14 - 2/27
Shipping Date:
Sample Type: ☒ Indoor Air ☐ Outdoor Air
☐ Subslab, complete section below ☐ Soil Gas
Soil Gas Probe Depth:

FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	228	-30.1	2/26/14	TAB
Field Vacuum Check ¹	231	-29	2/26/14	TAB
Initial Field Vacuum ²	232	-29	2/26/14	TAB
Final Field Vacuum ³	1012	-11	2/27/14	TAB
Duration of Sample Collection				

LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

SUBSLAB SHROUD:

Shroud Helium Concentration:

Calculated tubing volume: x 3 =

Purged Tubing Volume Concentration:

Is the purged volume concentration less than or equal to 10% in shroud?

☐ YES, continue sampling

☐ NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

NOTES:

1 Vacuum measured using portable vacuum gauge (provided by Lab)

2 Vacuum measured by canister gauge upon opening valve

3 Vacuum measured by canister gauge prior to closing valve

Signed:

TAB

AIR CANISTER FIELD RECORD

PROJECT INFORMATION:

Project: 500 Seneca RT
Job No: 0370-012-001
Location: Buffalo NY
Field Staff: TAB
Client: 500 Seneca

SAMPLE I.D.:

SSV-3

WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 80°F
Ambient Air Temp. - P.M.: 80°F
Wind Direction: W
Wind Speed: 15-20
Precipitation: NONE

Size of Canister: 6L
Canister Serial No.: 4261
Flow Controller No.: 4104
Sample Date(s): 2/26/14 - 2/27
Shipping Date:
Sample Type: ☐ Indoor Air ☐ Outdoor Air
☒ Subslab, complete section below ☐ Soil Gas
Soil Gas Probe Depth: ~5-inch

FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	224	-30.1	2/26/14	TAB
Field Vacuum Check ¹	225	-30	2/26/14	
Initial Field Vacuum ²	226	-30	2/26/14	
Final Field Vacuum ³	1017	-12	2/27/14	
Duration of Sample Collection				

LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

SUBSLAB SHROUD:

Shroud Helium Concentration: 4.6%
Calculated tubing volume: 21.719 x 3 = 65.157
Purged Tubing Volume Concentration: 0%
Is the purged volume concentration less than or equal to 10% in shroud?
☒ YES, continue sampling
☐ NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

NOTES:

- Vacuum measured using portable vacuum gauge (provided by Lab)
- Vacuum measured by canister gauge upon opening valve
- Vacuum measured by canister gauge prior to closing valve

Signed: TAB

AIR CANISTER FIELD RECORD

PROJECT INFORMATION:

Project: 500 Sereen Rt
Job No: 0870-012-001
Location: Buffalo NY
Field Staff: TAB
Client: 500 Sereen

SAMPLE I.D.:

Ambient - 3

WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 8°F
Ambient Air Temp. - P.M.: 8°F
Wind Direction: W
Wind Speed: 15-20
Precipitation: NONE

Size of Canister: 6L
Canister Serial No.: 3290
Flow Controller No.: 3943
Sample Date(s): 2/26/14 - 2/27
Shipping Date:
Sample Type: ☒ Indoor Air ☐ Outdoor Air
☐ Subslab, complete section below ☐ Soil Gas
Soil Gas Probe Depth:

FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	225	-30.1	2/26/14	TAB
Field Vacuum Check ¹	226	-28	2/26/14	TAB
Initial Field Vacuum ²	227	-28	2/26/14	TAB
Final Field Vacuum ³	2019	-9	2/27/14	TAB
Duration of Sample Collection				

LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

SUBSLAB SHROUD:

Shroud Helium Concentration:

Calculated tubing volume: x 3 =

Purged Tubing Volume Concentration:

Is the purged volume concentration less than or equal to 10% in shroud?

☐ YES, continue sampling

☐ NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

NOTES:

1 Vacuum measured using portable vacuum gauge (provided by Lab)

2 Vacuum measured by canister gauge upon opening valve

3 Vacuum measured by canister gauge prior to closing valve

Signed:

TAB

AIR CANISTER FIELD RECORD

PROJECT INFORMATION:

Project: 500 Sarsen PI
Job No: 0270-012-001
Location: Buffalo NY
Field Staff: TAB
Client: 500 Sarsen

SAMPLE I.D.:

Outside
Ambient

WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 8°F
Ambient Air Temp. - P.M.: 8°F
Wind Direction: W
Wind Speed: 15-20
Precipitation: NONE

Size of Canister: 6L

Canister Serial No.: 3488

Flow Controller No.: 4761

Sample Date(s): 2/26/14 - 2/27/14

Shipping Date:

Sample Type: ☐ Indoor Air ☒ Outdoor Air

☐ Subslab, complete section below ☐ Soil Gas

Soil Gas Probe Depth:

FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Lab Vacuum (on tag)	245	-30.1	2/26/14	TAB
Field Vacuum Check ¹	251	-30	2/26/14	TAB
Initial Field Vacuum ²	251	-30	2/26/14	TAB
Final Field Vacuum ³	955	-10	2/27/14	TAB
Duration of Sample Collection				

LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	
Final Pressure (psia)	
Pressurization Gas	

SUBSLAB SHROUD:

Shroud Helium Concentration:

Calculated tubing volume: x 3 =

Purged Tubing Volume Concentration:

Is the purged volume concentration less than or equal to 10% in shroud?

☐ YES, continue sampling

☐ NO, improve surface seal and retest

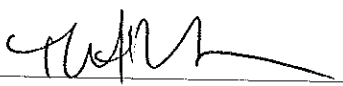
COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

NOTES:

1 Vacuum measured using portable vacuum gauge (provided by Lab)

2 Vacuum measured by canister gauge upon opening valve

3 Vacuum measured by canister gauge prior to closing valve

Signed: 

APPENDIX E

LABORATORY ANALYTICAL DATA PACKAGES

(PROVIDED ELECTRONICALLY ON CD)

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-47822-1

Client Project/Site: Benchmark - 500 Seneca St.

For:

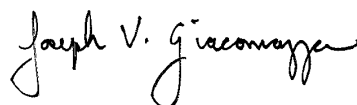
Benchmark Env. Eng. & Science, PLLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Mr. Tom Forbes



Authorized for release by:

10/25/2013 5:07:46 PM

Joe Giacomazza, Project Administrator

joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Project Manager II

(716)504-9835

brian.fischer@testamericainc.com

LINKS

Review your project
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Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Job ID: 480-47822-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-47822-1

Receipt

The samples were received on 10/11/2013 12:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.0° C, 3.6° C and 4.2° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with analytical batch 146088 recovered outside acceptance criteria, low biased, for multiple analytes. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for these analytes, the data have been reported.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for batch 146167 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) for multiple analytes associated with batch 145503 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 144942 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 144942 was outside control limits. These results have been reported and qualified.

Method(s) 8270D: The following sample(s) contained one acid and/or one base surrogate outside acceptance limits: Blind Dup (480-47822-2). The laboratory's SOP allows one acid surrogate and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample(s) contained one acid and/or one base surrogate outside acceptance limits: MW-4 (480-47822-4). The laboratory's SOP allows one acid surrogate and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C, 8270D: The following sample(s) contained one acid and/or one base surrogate outside acceptance limits: MW-2 (480-47822-3 MS), MW-2 (480-47822-3 MSD). The laboratory's SOP allows one acid surrogate and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 144942 recovered outside control limits for the following analyte: Acenaphthene. Several other analytes for this spike exceeded recovery limits. Due to the large number of analytes no re-extraction was needed.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8081B: The following sample and matrix spikes were diluted due to matrix effects: MW-2 (480-47822-3), MW-2 (480-47822-3 MS), MW-2 (480-47822-3 MSD), elevated reporting limits (RLs) are provided.

Method(s) 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch 145223 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. These results have been reported and qualified.

Method(s) 8081B: The following samples were diluted due to the nature of the sample matrix: Blind Dup (480-47822-2), MW-1

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Job ID: 480-47822-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

(480-47822-1). Elevated reporting limits (RLs) are provided.

Method(s) 8081B: For method 8081, the recovery of the one surrogate in samples Blind Dup (480-47822-2), MW-1 (480-47822-1), MW-2 (480-47822-3), MW-2 (480-47822-3 MSD), MW-4 (480-47822-4) exceeds quality control limits due to the sample matrix. The recovery of the secondary surrogate is within quality control criteria; no corrective action is required

Method(s) 8081B: All primary data is reported from the RTX-CLPI column.

Method(s) 8081B: The method blank MB 480-145223/1-A contained multiple analytes above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8082A: The surrogate percent difference in the associated continuing calibration verifications (CCV) for Tetrachloro-m-xylene and was decreased and slightly exceeded 15% on the ZB-5 column, indicating a low bias. (CCV 480-145203/19), (CCV 480-145203/8)

Method(s) 8082A: All primary data is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8151A: All primary data is reported from the RTX-CLPI column.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 9012B: The matrix spike (MS) recoveries for batch 145761 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.MW-2 (480-47822-3 MS)

No other analytical or quality issues were noted.

Organic Prep

Method(s) 8151A: During pH adjustment, the following sample required 15mL's of acid to reach the desired pH: Equipment Blank (480-47822-5).

No other analytical or quality issues were noted.

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-1

Date Collected: 10/09/13 15:30

Date Received: 10/11/13 12:25

Lab Sample ID: 480-47822-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/20/13 00:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/20/13 00:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/20/13 00:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/20/13 00:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/20/13 00:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/20/13 00:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/20/13 00:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/20/13 00:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/20/13 00:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/20/13 00:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/20/13 00:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/20/13 00:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/20/13 00:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/20/13 00:53	1
2-Hexanone	ND		5.0	1.2	ug/L			10/20/13 00:53	1
2-Butanone (MEK)	2.4	J	10	1.3	ug/L			10/20/13 00:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/20/13 00:53	1
Acetone	10		10	3.0	ug/L			10/20/13 00:53	1
Benzene	ND		1.0	0.41	ug/L			10/20/13 00:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/20/13 00:53	1
Bromoform	ND		1.0	0.26	ug/L			10/20/13 00:53	1
Bromomethane	ND		1.0	0.69	ug/L			10/20/13 00:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/20/13 00:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/20/13 00:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/20/13 00:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/20/13 00:53	1
Chloroethane	ND		1.0	0.32	ug/L			10/20/13 00:53	1
Chloroform	ND		1.0	0.34	ug/L			10/20/13 00:53	1
Chloromethane	ND		1.0	0.35	ug/L			10/20/13 00:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/20/13 00:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/20/13 00:53	1
Cyclohexane	ND		1.0	0.18	ug/L			10/20/13 00:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/20/13 00:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/20/13 00:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/20/13 00:53	1
Methyl acetate	ND		1.0	0.50	ug/L			10/20/13 00:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/20/13 00:53	1
Methylcyclohexane	0.38	J	1.0	0.16	ug/L			10/20/13 00:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/20/13 00:53	1
Styrene	ND		1.0	0.73	ug/L			10/20/13 00:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/20/13 00:53	1
Toluene	ND		1.0	0.51	ug/L			10/20/13 00:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/20/13 00:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/20/13 00:53	1
Trichloroethene	ND		1.0	0.46	ug/L			10/20/13 00:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/20/13 00:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/20/13 00:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/20/13 00:53	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-1

Lab Sample ID: 480-47822-1

Date Collected: 10/09/13 15:30

Matrix: Water

Date Received: 10/11/13 12:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		10/20/13 00:53	1
Toluene-d8 (Surr)	102		71 - 126		10/20/13 00:53	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/20/13 00:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.7	0.45	ug/L		10/15/13 07:49	10/17/13 15:19	1
2,4,6-Trichlorophenol	ND		4.7	0.57	ug/L		10/15/13 07:49	10/17/13 15:19	1
2,4-Dichlorophenol	ND		4.7	0.48	ug/L		10/15/13 07:49	10/17/13 15:19	1
2,4-Dimethylphenol	ND		4.7	0.47	ug/L		10/15/13 07:49	10/17/13 15:19	1
2,4-Dinitrophenol	ND		9.4	2.1	ug/L		10/15/13 07:49	10/17/13 15:19	1
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L		10/15/13 07:49	10/17/13 15:19	1
2,6-Dinitrotoluene	ND *		4.7	0.38	ug/L		10/15/13 07:49	10/17/13 15:19	1
2-Chloronaphthalene	ND		4.7	0.43	ug/L		10/15/13 07:49	10/17/13 15:19	1
2-Chlorophenol	ND		4.7	0.50	ug/L		10/15/13 07:49	10/17/13 15:19	1
2-Methylnaphthalene	ND		4.7	0.57	ug/L		10/15/13 07:49	10/17/13 15:19	1
2-Methylphenol	ND		4.7	0.38	ug/L		10/15/13 07:49	10/17/13 15:19	1
2-Nitroaniline	ND		9.4	0.40	ug/L		10/15/13 07:49	10/17/13 15:19	1
2-Nitrophenol	ND		4.7	0.45	ug/L		10/15/13 07:49	10/17/13 15:19	1
3,3'-Dichlorobenzidine	ND		4.7	0.38	ug/L		10/15/13 07:49	10/17/13 15:19	1
3-Nitroaniline	ND *		9.4	0.45	ug/L		10/15/13 07:49	10/17/13 15:19	1
4,6-Dinitro-2-methylphenol	ND		9.4	2.1	ug/L		10/15/13 07:49	10/17/13 15:19	1
4-Bromophenyl phenyl ether	ND		4.7	0.42	ug/L		10/15/13 07:49	10/17/13 15:19	1
4-Chloro-3-methylphenol	ND		4.7	0.42	ug/L		10/15/13 07:49	10/17/13 15:19	1
4-Chloroaniline	ND *		4.7	0.56	ug/L		10/15/13 07:49	10/17/13 15:19	1
4-Chlorophenyl phenyl ether	ND *		4.7	0.33	ug/L		10/15/13 07:49	10/17/13 15:19	1
4-Methylphenol	ND		9.4	0.34	ug/L		10/15/13 07:49	10/17/13 15:19	1
4-Nitroaniline	ND		9.4	0.24	ug/L		10/15/13 07:49	10/17/13 15:19	1
4-Nitrophenol	ND		9.4	1.4	ug/L		10/15/13 07:49	10/17/13 15:19	1
Acenaphthene	0.66	J *	4.7	0.39	ug/L		10/15/13 07:49	10/17/13 15:19	1
Acenaphthylene	ND *		4.7	0.36	ug/L		10/15/13 07:49	10/17/13 15:19	1
Acetophenone	ND		4.7	0.51	ug/L		10/15/13 07:49	10/17/13 15:19	1
Anthracene	ND		4.7	0.26	ug/L		10/15/13 07:49	10/17/13 15:19	1
Atrazine	ND		4.7	0.43	ug/L		10/15/13 07:49	10/17/13 15:19	1
Benzaldehyde	ND *		4.7	0.25	ug/L		10/15/13 07:49	10/17/13 15:19	1
Benzo(a)anthracene	ND		4.7	0.34	ug/L		10/15/13 07:49	10/17/13 15:19	1
Benzo(a)pyrene	ND		4.7	0.44	ug/L		10/15/13 07:49	10/17/13 15:19	1
Benzo(b)fluoranthene	ND		4.7	0.32	ug/L		10/15/13 07:49	10/17/13 15:19	1
Benzo(g,h,i)perylene	ND		4.7	0.33	ug/L		10/15/13 07:49	10/17/13 15:19	1
Benzo(k)fluoranthene	ND		4.7	0.69	ug/L		10/15/13 07:49	10/17/13 15:19	1
Biphenyl	ND		4.7	0.62	ug/L		10/15/13 07:49	10/17/13 15:19	1
bis (2-chloroisopropyl) ether	ND		4.7	0.49	ug/L		10/15/13 07:49	10/17/13 15:19	1
Bis(2-chloroethoxy)methane	ND		4.7	0.33	ug/L		10/15/13 07:49	10/17/13 15:19	1
Bis(2-chloroethyl)ether	ND *		4.7	0.38	ug/L		10/15/13 07:49	10/17/13 15:19	1
Bis(2-ethylhexyl) phthalate	ND		4.7	1.7	ug/L		10/15/13 07:49	10/17/13 15:19	1
Butyl benzyl phthalate	ND		4.7	0.40	ug/L		10/15/13 07:49	10/17/13 15:19	1
Caprolactam	ND *		4.7	2.1	ug/L		10/15/13 07:49	10/17/13 15:19	1
Carbazole	ND		4.7	0.28	ug/L		10/15/13 07:49	10/17/13 15:19	1
Chrysene	ND		4.7	0.31	ug/L		10/15/13 07:49	10/17/13 15:19	1
Dibenz(a,h)anthracene	ND		4.7	0.40	ug/L		10/15/13 07:49	10/17/13 15:19	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-1

Lab Sample ID: 480-47822-1

Date Collected: 10/09/13 15:30

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		9.4	0.48	ug/L		10/15/13 07:49	10/17/13 15:19	1
Diethyl phthalate	ND		4.7	0.21	ug/L		10/15/13 07:49	10/17/13 15:19	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		10/15/13 07:49	10/17/13 15:19	1
Di-n-butyl phthalate	ND		4.7	0.29	ug/L		10/15/13 07:49	10/17/13 15:19	1
Di-n-octyl phthalate	ND		4.7	0.44	ug/L		10/15/13 07:49	10/17/13 15:19	1
Fluoranthene	ND		4.7	0.38	ug/L		10/15/13 07:49	10/17/13 15:19	1
Fluorene	ND		4.7	0.34	ug/L		10/15/13 07:49	10/17/13 15:19	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		10/15/13 07:49	10/17/13 15:19	1
Hexachlorobutadiene	ND		4.7	0.64	ug/L		10/15/13 07:49	10/17/13 15:19	1
Hexachlorocyclopentadiene	ND		4.7	0.56	ug/L		10/15/13 07:49	10/17/13 15:19	1
Hexachloroethane	ND		4.7	0.56	ug/L		10/15/13 07:49	10/17/13 15:19	1
Indeno(1,2,3-cd)pyrene	ND		4.7	0.44	ug/L		10/15/13 07:49	10/17/13 15:19	1
Isophorone	ND		4.7	0.41	ug/L		10/15/13 07:49	10/17/13 15:19	1
Naphthalene	ND		4.7	0.72	ug/L		10/15/13 07:49	10/17/13 15:19	1
Nitrobenzene	ND		4.7	0.27	ug/L		10/15/13 07:49	10/17/13 15:19	1
N-Nitrosodi-n-propylamine	ND		4.7	0.51	ug/L		10/15/13 07:49	10/17/13 15:19	1
N-Nitrosodiphenylamine	ND		4.7	0.48	ug/L		10/15/13 07:49	10/17/13 15:19	1
Pentachlorophenol	ND		9.4	2.1	ug/L		10/15/13 07:49	10/17/13 15:19	1
Phenanthrene	ND		4.7	0.41	ug/L		10/15/13 07:49	10/17/13 15:19	1
Phenol	ND		4.7	0.37	ug/L		10/15/13 07:49	10/17/13 15:19	1
Pyrene	ND		4.7	0.32	ug/L		10/15/13 07:49	10/17/13 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		52 - 132	10/15/13 07:49	10/17/13 15:19	1
2-Fluorobiphenyl	69		48 - 120	10/15/13 07:49	10/17/13 15:19	1
2-Fluorophenol	43		20 - 120	10/15/13 07:49	10/17/13 15:19	1
Nitrobenzene-d5	64		46 - 120	10/15/13 07:49	10/17/13 15:19	1
Phenol-d5	34		16 - 120	10/15/13 07:49	10/17/13 15:19	1
p-Terphenyl-d14	72		67 - 150	10/15/13 07:49	10/17/13 15:19	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.17	J B	0.24	0.045	ug/L		10/16/13 07:30	10/17/13 10:00	5
4,4'-DDE	0.080	J	0.24	0.057	ug/L		10/16/13 07:30	10/17/13 10:00	5
4,4'-DDT	0.21	J B	0.24	0.054	ug/L		10/16/13 07:30	10/17/13 10:00	5
Aldrin	0.14	J	0.24	0.032	ug/L		10/16/13 07:30	10/17/13 10:00	5
alpha-BHC	0.050	J	0.24	0.032	ug/L		10/16/13 07:30	10/17/13 10:00	5
alpha-Chlordane	ND		0.24	0.072	ug/L		10/16/13 07:30	10/17/13 10:00	5
beta-BHC	ND		0.24	0.12	ug/L		10/16/13 07:30	10/17/13 10:00	5
delta-BHC	0.093	J	0.24	0.049	ug/L		10/16/13 07:30	10/17/13 10:00	5
Dieldrin	ND		0.24	0.048	ug/L		10/16/13 07:30	10/17/13 10:00	5
Endosulfan I	ND		0.24	0.054	ug/L		10/16/13 07:30	10/17/13 10:00	5
Endosulfan II	ND		0.24	0.059	ug/L		10/16/13 07:30	10/17/13 10:00	5
Endosulfan sulfate	0.097	J	0.24	0.077	ug/L		10/16/13 07:30	10/17/13 10:00	5
Endrin	0.098	J	0.24	0.067	ug/L		10/16/13 07:30	10/17/13 10:00	5
Endrin aldehyde	0.16	J	0.24	0.080	ug/L		10/16/13 07:30	10/17/13 10:00	5
Endrin ketone	0.079	J	0.24	0.059	ug/L		10/16/13 07:30	10/17/13 10:00	5
gamma-BHC (Lindane)	0.071	J	0.24	0.029	ug/L		10/16/13 07:30	10/17/13 10:00	5
gamma-Chlordane	0.061	J B	0.24	0.054	ug/L		10/16/13 07:30	10/17/13 10:00	5
Heptachlor	0.091	J	0.24	0.042	ug/L		10/16/13 07:30	10/17/13 10:00	5

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-1

Lab Sample ID: 480-47822-1

Date Collected: 10/09/13 15:30

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.24	0.026	ug/L		10/16/13 07:30	10/17/13 10:00	5
Methoxychlor	0.18	J	0.24	0.069	ug/L		10/16/13 07:30	10/17/13 10:00	5
Toxaphene	ND		2.4	0.59	ug/L		10/16/13 07:30	10/17/13 10:00	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		20 - 120				10/16/13 07:30	10/17/13 10:00	5
Tetrachloro-m-xylene	167	X	36 - 120				10/16/13 07:30	10/17/13 10:00	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.49	0.17	ug/L		10/15/13 06:33	10/16/13 09:25	1
PCB-1221	ND		0.49	0.17	ug/L		10/15/13 06:33	10/16/13 09:25	1
PCB-1232	ND		0.49	0.17	ug/L		10/15/13 06:33	10/16/13 09:25	1
PCB-1242	ND		0.49	0.17	ug/L		10/15/13 06:33	10/16/13 09:25	1
PCB-1248	ND		0.49	0.17	ug/L		10/15/13 06:33	10/16/13 09:25	1
PCB-1254	ND		0.49	0.24	ug/L		10/15/13 06:33	10/16/13 09:25	1
PCB-1260	ND		0.49	0.24	ug/L		10/15/13 06:33	10/16/13 09:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		19 - 126				10/15/13 06:33	10/16/13 09:25	1
Tetrachloro-m-xylene	63		23 - 127				10/15/13 06:33	10/16/13 09:25	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.14	ug/L		10/14/13 14:59	10/16/13 12:08	1
Silvex (2,4,5-TP)	ND		0.48	0.34	ug/L		10/14/13 14:59	10/16/13 12:08	1
2,4-D	ND		0.48	0.38	ug/L		10/14/13 14:59	10/16/13 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	99		40 - 135				10/14/13 14:59	10/16/13 12:08	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20		mg/L		10/14/13 08:45	10/17/13 12:03	1
Antimony	ND		0.020		mg/L		10/14/13 08:45	10/17/13 12:03	1
Arsenic	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:03	1
Barium	0.10		0.0020		mg/L		10/14/13 08:45	10/17/13 12:03	1
Beryllium	ND		0.0020		mg/L		10/14/13 08:45	10/17/13 12:03	1
Cadmium	ND		0.0010		mg/L		10/14/13 08:45	10/17/13 12:03	1
Calcium	295		0.50		mg/L		10/14/13 08:45	10/17/13 12:03	1
Chromium	ND		0.0040		mg/L		10/14/13 08:45	10/17/13 12:03	1
Cobalt	0.0071		0.0040		mg/L		10/14/13 08:45	10/17/13 12:03	1
Copper	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:03	1
Iron	1.4		0.050		mg/L		10/14/13 08:45	10/17/13 12:03	1
Lead	ND		0.0050		mg/L		10/14/13 08:45	10/17/13 12:03	1
Magnesium	161		0.20		mg/L		10/14/13 08:45	10/17/13 12:03	1
Manganese	0.41		0.0030		mg/L		10/14/13 08:45	10/17/13 12:03	1
Nickel	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:03	1
Potassium	6.9		0.50		mg/L		10/14/13 08:45	10/19/13 10:51	1
Selenium	ND		0.015		mg/L		10/14/13 08:45	10/17/13 12:03	1
Silver	ND		0.0030		mg/L		10/14/13 08:45	10/17/13 12:03	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-1

Date Collected: 10/09/13 15:30

Date Received: 10/11/13 12:25

Lab Sample ID: 480-47822-1

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	493		1.0		mg/L		10/14/13 08:45	10/17/13 12:03	1
Thallium	ND		0.020		mg/L		10/14/13 08:45	10/17/13 12:03	1
Vanadium	ND		0.0050		mg/L		10/14/13 08:45	10/17/13 12:03	1
Zinc	0.013		0.010		mg/L		10/14/13 08:45	10/17/13 12:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		10/14/13 09:03	10/14/13 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		10/17/13 09:45	10/17/13 19:57	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Blind Dup

Lab Sample ID: 480-47822-2

Date Collected: 10/09/13 12:00

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/20/13 01:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/20/13 01:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/20/13 01:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/20/13 01:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/20/13 01:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/20/13 01:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/20/13 01:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/20/13 01:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/20/13 01:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/20/13 01:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/20/13 01:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/20/13 01:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/20/13 01:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/20/13 01:17	1
2-Hexanone	ND		5.0	1.2	ug/L			10/20/13 01:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/20/13 01:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/20/13 01:17	1
Acetone	9.3	J	10	3.0	ug/L			10/20/13 01:17	1
Benzene	ND		1.0	0.41	ug/L			10/20/13 01:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/20/13 01:17	1
Bromoform	ND		1.0	0.26	ug/L			10/20/13 01:17	1
Bromomethane	ND		1.0	0.69	ug/L			10/20/13 01:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/20/13 01:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/20/13 01:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/20/13 01:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/20/13 01:17	1
Chloroethane	ND		1.0	0.32	ug/L			10/20/13 01:17	1
Chloroform	ND		1.0	0.34	ug/L			10/20/13 01:17	1
Chloromethane	ND		1.0	0.35	ug/L			10/20/13 01:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/20/13 01:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/20/13 01:17	1
Cyclohexane	ND		1.0	0.18	ug/L			10/20/13 01:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/20/13 01:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/20/13 01:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/20/13 01:17	1
Methyl acetate	ND		1.0	0.50	ug/L			10/20/13 01:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/20/13 01:17	1
Methylcyclohexane	0.31	J	1.0	0.16	ug/L			10/20/13 01:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/20/13 01:17	1
Styrene	ND		1.0	0.73	ug/L			10/20/13 01:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/20/13 01:17	1
Toluene	ND		1.0	0.51	ug/L			10/20/13 01:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/20/13 01:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/20/13 01:17	1
Trichloroethene	ND		1.0	0.46	ug/L			10/20/13 01:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/20/13 01:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/20/13 01:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/20/13 01:17	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Blind Dup

Date Collected: 10/09/13 12:00

Date Received: 10/11/13 12:25

Lab Sample ID: 480-47822-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		10/20/13 01:17	1
Toluene-d8 (Surr)	100		71 - 126		10/20/13 01:17	1
4-Bromofluorobenzene (Surr)	97		73 - 120		10/20/13 01:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.7	0.45	ug/L		10/15/13 07:49	10/17/13 15:46	1
2,4,6-Trichlorophenol	ND		4.7	0.57	ug/L		10/15/13 07:49	10/17/13 15:46	1
2,4-Dichlorophenol	ND		4.7	0.48	ug/L		10/15/13 07:49	10/17/13 15:46	1
2,4-Dimethylphenol	ND		4.7	0.47	ug/L		10/15/13 07:49	10/17/13 15:46	1
2,4-Dinitrophenol	ND		9.4	2.1	ug/L		10/15/13 07:49	10/17/13 15:46	1
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L		10/15/13 07:49	10/17/13 15:46	1
2,6-Dinitrotoluene	ND *		4.7	0.38	ug/L		10/15/13 07:49	10/17/13 15:46	1
2-Chloronaphthalene	ND		4.7	0.43	ug/L		10/15/13 07:49	10/17/13 15:46	1
2-Chlorophenol	ND		4.7	0.50	ug/L		10/15/13 07:49	10/17/13 15:46	1
2-Methylnaphthalene	ND		4.7	0.56	ug/L		10/15/13 07:49	10/17/13 15:46	1
2-Methylphenol	ND		4.7	0.38	ug/L		10/15/13 07:49	10/17/13 15:46	1
2-Nitroaniline	ND		9.4	0.40	ug/L		10/15/13 07:49	10/17/13 15:46	1
2-Nitrophenol	ND		4.7	0.45	ug/L		10/15/13 07:49	10/17/13 15:46	1
3,3'-Dichlorobenzidine	ND		4.7	0.38	ug/L		10/15/13 07:49	10/17/13 15:46	1
3-Nitroaniline	ND *		9.4	0.45	ug/L		10/15/13 07:49	10/17/13 15:46	1
4,6-Dinitro-2-methylphenol	ND		9.4	2.1	ug/L		10/15/13 07:49	10/17/13 15:46	1
4-Bromophenyl phenyl ether	ND		4.7	0.42	ug/L		10/15/13 07:49	10/17/13 15:46	1
4-Chloro-3-methylphenol	ND		4.7	0.42	ug/L		10/15/13 07:49	10/17/13 15:46	1
4-Chloroaniline	ND *		4.7	0.56	ug/L		10/15/13 07:49	10/17/13 15:46	1
4-Chlorophenyl phenyl ether	ND *		4.7	0.33	ug/L		10/15/13 07:49	10/17/13 15:46	1
4-Methylphenol	ND		9.4	0.34	ug/L		10/15/13 07:49	10/17/13 15:46	1
4-Nitroaniline	ND		9.4	0.24	ug/L		10/15/13 07:49	10/17/13 15:46	1
4-Nitrophenol	ND		9.4	1.4	ug/L		10/15/13 07:49	10/17/13 15:46	1
Acenaphthene	0.72 J *		4.7	0.39	ug/L		10/15/13 07:49	10/17/13 15:46	1
Acenaphthylene	ND *		4.7	0.36	ug/L		10/15/13 07:49	10/17/13 15:46	1
Acetophenone	ND		4.7	0.51	ug/L		10/15/13 07:49	10/17/13 15:46	1
Anthracene	ND		4.7	0.26	ug/L		10/15/13 07:49	10/17/13 15:46	1
Atrazine	ND		4.7	0.43	ug/L		10/15/13 07:49	10/17/13 15:46	1
Benzaldehyde	ND *		4.7	0.25	ug/L		10/15/13 07:49	10/17/13 15:46	1
Benzo(a)anthracene	ND		4.7	0.34	ug/L		10/15/13 07:49	10/17/13 15:46	1
Benzo(a)pyrene	ND		4.7	0.44	ug/L		10/15/13 07:49	10/17/13 15:46	1
Benzo(b)fluoranthene	ND		4.7	0.32	ug/L		10/15/13 07:49	10/17/13 15:46	1
Benzo(g,h,i)perylene	ND		4.7	0.33	ug/L		10/15/13 07:49	10/17/13 15:46	1
Benzo(k)fluoranthene	ND		4.7	0.69	ug/L		10/15/13 07:49	10/17/13 15:46	1
Biphenyl	ND		4.7	0.61	ug/L		10/15/13 07:49	10/17/13 15:46	1
bis (2-chloroisopropyl) ether	ND		4.7	0.49	ug/L		10/15/13 07:49	10/17/13 15:46	1
Bis(2-chloroethoxy)methane	ND		4.7	0.33	ug/L		10/15/13 07:49	10/17/13 15:46	1
Bis(2-chloroethyl)ether	ND *		4.7	0.38	ug/L		10/15/13 07:49	10/17/13 15:46	1
Bis(2-ethylhexyl) phthalate	ND		4.7	1.7	ug/L		10/15/13 07:49	10/17/13 15:46	1
Butyl benzyl phthalate	ND		4.7	0.40	ug/L		10/15/13 07:49	10/17/13 15:46	1
Caprolactam	ND *		4.7	2.1	ug/L		10/15/13 07:49	10/17/13 15:46	1
Carbazole	ND		4.7	0.28	ug/L		10/15/13 07:49	10/17/13 15:46	1
Chrysene	ND		4.7	0.31	ug/L		10/15/13 07:49	10/17/13 15:46	1
Dibenz(a,h)anthracene	ND		4.7	0.40	ug/L		10/15/13 07:49	10/17/13 15:46	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Blind Dup

Lab Sample ID: 480-47822-2

Date Collected: 10/09/13 12:00

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		9.4	0.48	ug/L		10/15/13 07:49	10/17/13 15:46	1
Diethyl phthalate	0.32	J	4.7	0.21	ug/L		10/15/13 07:49	10/17/13 15:46	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		10/15/13 07:49	10/17/13 15:46	1
Di-n-butyl phthalate	ND		4.7	0.29	ug/L		10/15/13 07:49	10/17/13 15:46	1
Di-n-octyl phthalate	ND		4.7	0.44	ug/L		10/15/13 07:49	10/17/13 15:46	1
Fluoranthene	ND		4.7	0.38	ug/L		10/15/13 07:49	10/17/13 15:46	1
Fluorene	ND		4.7	0.34	ug/L		10/15/13 07:49	10/17/13 15:46	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		10/15/13 07:49	10/17/13 15:46	1
Hexachlorobutadiene	ND		4.7	0.64	ug/L		10/15/13 07:49	10/17/13 15:46	1
Hexachlorocyclopentadiene	ND		4.7	0.56	ug/L		10/15/13 07:49	10/17/13 15:46	1
Hexachloroethane	ND		4.7	0.56	ug/L		10/15/13 07:49	10/17/13 15:46	1
Indeno(1,2,3-cd)pyrene	ND		4.7	0.44	ug/L		10/15/13 07:49	10/17/13 15:46	1
Isophorone	ND		4.7	0.40	ug/L		10/15/13 07:49	10/17/13 15:46	1
Naphthalene	ND		4.7	0.72	ug/L		10/15/13 07:49	10/17/13 15:46	1
Nitrobenzene	ND		4.7	0.27	ug/L		10/15/13 07:49	10/17/13 15:46	1
N-Nitrosodi-n-propylamine	ND		4.7	0.51	ug/L		10/15/13 07:49	10/17/13 15:46	1
N-Nitrosodiphenylamine	ND		4.7	0.48	ug/L		10/15/13 07:49	10/17/13 15:46	1
Pentachlorophenol	ND		9.4	2.1	ug/L		10/15/13 07:49	10/17/13 15:46	1
Phenanthrene	0.67	J	4.7	0.41	ug/L		10/15/13 07:49	10/17/13 15:46	1
Phenol	ND		4.7	0.37	ug/L		10/15/13 07:49	10/17/13 15:46	1
Pyrene	ND		4.7	0.32	ug/L		10/15/13 07:49	10/17/13 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		52 - 132	10/15/13 07:49	10/17/13 15:46	1
2-Fluorobiphenyl	72		48 - 120	10/15/13 07:49	10/17/13 15:46	1
2-Fluorophenol	43		20 - 120	10/15/13 07:49	10/17/13 15:46	1
Nitrobenzene-d5	66		46 - 120	10/15/13 07:49	10/17/13 15:46	1
Phenol-d5	35		16 - 120	10/15/13 07:49	10/17/13 15:46	1
p-Terphenyl-d14	49	X	67 - 150	10/15/13 07:49	10/17/13 15:46	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.18	J B	0.25	0.046	ug/L		10/16/13 07:30	10/17/13 13:59	5
4,4'-DDE	ND		0.25	0.057	ug/L		10/16/13 07:30	10/17/13 13:59	5
4,4'-DDT	0.18	J B	0.25	0.054	ug/L		10/16/13 07:30	10/17/13 13:59	5
Aldrin	0.18	J	0.25	0.033	ug/L		10/16/13 07:30	10/17/13 13:59	5
alpha-BHC	0.091	J	0.25	0.033	ug/L		10/16/13 07:30	10/17/13 13:59	5
alpha-Chlordane	ND		0.25	0.073	ug/L		10/16/13 07:30	10/17/13 13:59	5
beta-BHC	ND		0.25	0.12	ug/L		10/16/13 07:30	10/17/13 13:59	5
delta-BHC	0.095	J	0.25	0.050	ug/L		10/16/13 07:30	10/17/13 13:59	5
Dieldrin	ND		0.25	0.049	ug/L		10/16/13 07:30	10/17/13 13:59	5
Endosulfan I	ND		0.25	0.054	ug/L		10/16/13 07:30	10/17/13 13:59	5
Endosulfan II	ND		0.25	0.059	ug/L		10/16/13 07:30	10/17/13 13:59	5
Endosulfan sulfate	ND		0.25	0.078	ug/L		10/16/13 07:30	10/17/13 13:59	5
Endrin	0.078	J	0.25	0.068	ug/L		10/16/13 07:30	10/17/13 13:59	5
Endrin aldehyde	0.093	J	0.25	0.081	ug/L		10/16/13 07:30	10/17/13 13:59	5
Endrin ketone	ND		0.25	0.059	ug/L		10/16/13 07:30	10/17/13 13:59	5
gamma-BHC (Lindane)	0.071	J	0.25	0.030	ug/L		10/16/13 07:30	10/17/13 13:59	5
gamma-Chlordane	ND		0.25	0.054	ug/L		10/16/13 07:30	10/17/13 13:59	5
Heptachlor	ND		0.25	0.042	ug/L		10/16/13 07:30	10/17/13 13:59	5

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Blind Dup

Date Collected: 10/09/13 12:00

Date Received: 10/11/13 12:25

Lab Sample ID: 480-47822-2

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.25	0.026	ug/L		10/16/13 07:30	10/17/13 13:59	5
Methoxychlor	0.10	J	0.25	0.070	ug/L		10/16/13 07:30	10/17/13 13:59	5
Toxaphene	ND		2.5	0.59	ug/L		10/16/13 07:30	10/17/13 13:59	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		20 - 120				10/16/13 07:30	10/17/13 13:59	5
Tetrachloro-m-xylene	195	X	36 - 120				10/16/13 07:30	10/17/13 13:59	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		10/15/13 06:33	10/16/13 09:41	1
PCB-1221	ND		0.50	0.18	ug/L		10/15/13 06:33	10/16/13 09:41	1
PCB-1232	ND		0.50	0.18	ug/L		10/15/13 06:33	10/16/13 09:41	1
PCB-1242	ND		0.50	0.18	ug/L		10/15/13 06:33	10/16/13 09:41	1
PCB-1248	ND		0.50	0.18	ug/L		10/15/13 06:33	10/16/13 09:41	1
PCB-1254	ND		0.50	0.25	ug/L		10/15/13 06:33	10/16/13 09:41	1
PCB-1260	ND		0.50	0.25	ug/L		10/15/13 06:33	10/16/13 09:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		19 - 126				10/15/13 06:33	10/16/13 09:41	1
Tetrachloro-m-xylene	62		23 - 127				10/15/13 06:33	10/16/13 09:41	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.47	0.14	ug/L		10/14/13 14:59	10/16/13 12:38	1
Silvex (2,4,5-TP)	ND		0.47	0.34	ug/L		10/14/13 14:59	10/16/13 12:38	1
2,4-D	ND		0.47	0.38	ug/L		10/14/13 14:59	10/16/13 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	95		40 - 135				10/14/13 14:59	10/16/13 12:38	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.4		0.20		mg/L		10/14/13 08:45	10/17/13 12:06	1
Antimony	ND		0.020		mg/L		10/14/13 08:45	10/17/13 12:06	1
Arsenic	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:06	1
Barium	0.12		0.0020		mg/L		10/14/13 08:45	10/17/13 12:06	1
Beryllium	ND		0.0020		mg/L		10/14/13 08:45	10/17/13 12:06	1
Cadmium	ND		0.0010		mg/L		10/14/13 08:45	10/17/13 12:06	1
Calcium	295		0.50		mg/L		10/14/13 08:45	10/17/13 12:06	1
Chromium	ND		0.0040		mg/L		10/14/13 08:45	10/17/13 12:06	1
Cobalt	0.0064		0.0040		mg/L		10/14/13 08:45	10/17/13 12:06	1
Copper	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:06	1
Iron	2.0		0.050		mg/L		10/14/13 08:45	10/17/13 12:06	1
Lead	ND		0.0050		mg/L		10/14/13 08:45	10/17/13 12:06	1
Magnesium	164		0.20		mg/L		10/14/13 08:45	10/17/13 12:06	1
Manganese	0.33		0.0030		mg/L		10/14/13 08:45	10/17/13 12:06	1
Nickel	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:06	1
Potassium	6.8		0.50		mg/L		10/14/13 08:45	10/19/13 10:53	1
Selenium	ND		0.015		mg/L		10/14/13 08:45	10/17/13 12:06	1
Silver	ND		0.0030		mg/L		10/14/13 08:45	10/17/13 12:06	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Blind Dup

Lab Sample ID: 480-47822-2

Date Collected: 10/09/13 12:00

Matrix: Water

Date Received: 10/11/13 12:25

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	491		1.0		mg/L		10/14/13 08:45	10/17/13 12:06	1
Thallium	ND		0.020		mg/L		10/14/13 08:45	10/17/13 12:06	1
Vanadium	ND		0.0050		mg/L		10/14/13 08:45	10/17/13 12:06	1
Zinc	0.012		0.010		mg/L		10/14/13 08:45	10/17/13 12:06	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		10/14/13 09:03	10/14/13 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		10/17/13 09:45	10/17/13 19:56	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-2

Date Collected: 10/09/13 14:07

Date Received: 10/11/13 12:25

Lab Sample ID: 480-47822-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/20/13 01:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/20/13 01:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/20/13 01:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/20/13 01:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/20/13 01:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/20/13 01:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/20/13 01:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/20/13 01:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/20/13 01:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/20/13 01:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/20/13 01:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/20/13 01:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/20/13 01:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/20/13 01:41	1
2-Hexanone	ND		5.0	1.2	ug/L			10/20/13 01:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/20/13 01:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/20/13 01:41	1
Acetone	4.5	J	10	3.0	ug/L			10/20/13 01:41	1
Benzene	ND		1.0	0.41	ug/L			10/20/13 01:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/20/13 01:41	1
Bromoform	ND		1.0	0.26	ug/L			10/20/13 01:41	1
Bromomethane	ND		1.0	0.69	ug/L			10/20/13 01:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/20/13 01:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/20/13 01:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/20/13 01:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/20/13 01:41	1
Chloroethane	ND		1.0	0.32	ug/L			10/20/13 01:41	1
Chloroform	ND		1.0	0.34	ug/L			10/20/13 01:41	1
Chloromethane	ND		1.0	0.35	ug/L			10/20/13 01:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/20/13 01:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/20/13 01:41	1
Cyclohexane	ND		1.0	0.18	ug/L			10/20/13 01:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/20/13 01:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/20/13 01:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/20/13 01:41	1
Methyl acetate	ND		1.0	0.50	ug/L			10/20/13 01:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/20/13 01:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/20/13 01:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/20/13 01:41	1
Styrene	ND		1.0	0.73	ug/L			10/20/13 01:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/20/13 01:41	1
Toluene	ND		1.0	0.51	ug/L			10/20/13 01:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/20/13 01:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/20/13 01:41	1
Trichloroethene	ND		1.0	0.46	ug/L			10/20/13 01:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/20/13 01:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/20/13 01:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/20/13 01:41	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-2

Lab Sample ID: 480-47822-3

Date Collected: 10/09/13 14:07

Matrix: Water

Date Received: 10/11/13 12:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		10/20/13 01:41	1
Toluene-d8 (Surr)	102		71 - 126		10/20/13 01:41	1
4-Bromofluorobenzene (Surr)	100		73 - 120		10/20/13 01:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.8	0.46	ug/L		10/15/13 07:49	10/17/13 16:13	1
2,4,6-Trichlorophenol	ND		4.8	0.58	ug/L		10/15/13 07:49	10/17/13 16:13	1
2,4-Dichlorophenol	ND		4.8	0.49	ug/L		10/15/13 07:49	10/17/13 16:13	1
2,4-Dimethylphenol	ND		4.8	0.48	ug/L		10/15/13 07:49	10/17/13 16:13	1
2,4-Dinitrophenol	ND		9.5	2.1	ug/L		10/15/13 07:49	10/17/13 16:13	1
2,4-Dinitrotoluene	ND		4.8	0.43	ug/L		10/15/13 07:49	10/17/13 16:13	1
2,6-Dinitrotoluene	ND *		4.8	0.38	ug/L		10/15/13 07:49	10/17/13 16:13	1
2-Chloronaphthalene	ND		4.8	0.44	ug/L		10/15/13 07:49	10/17/13 16:13	1
2-Chlorophenol	ND		4.8	0.50	ug/L		10/15/13 07:49	10/17/13 16:13	1
2-Methylnaphthalene	ND		4.8	0.57	ug/L		10/15/13 07:49	10/17/13 16:13	1
2-Methylphenol	ND		4.8	0.38	ug/L		10/15/13 07:49	10/17/13 16:13	1
2-Nitroaniline	ND		9.5	0.40	ug/L		10/15/13 07:49	10/17/13 16:13	1
2-Nitrophenol	ND		4.8	0.46	ug/L		10/15/13 07:49	10/17/13 16:13	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		10/15/13 07:49	10/17/13 16:13	1
3-Nitroaniline	ND *		9.5	0.46	ug/L		10/15/13 07:49	10/17/13 16:13	1
4,6-Dinitro-2-methylphenol	ND		9.5	2.1	ug/L		10/15/13 07:49	10/17/13 16:13	1
4-Bromophenyl phenyl ether	ND		4.8	0.43	ug/L		10/15/13 07:49	10/17/13 16:13	1
4-Chloro-3-methylphenol	ND		4.8	0.43	ug/L		10/15/13 07:49	10/17/13 16:13	1
4-Chloroaniline	ND *		4.8	0.56	ug/L		10/15/13 07:49	10/17/13 16:13	1
4-Chlorophenyl phenyl ether	ND *		4.8	0.33	ug/L		10/15/13 07:49	10/17/13 16:13	1
4-Methylphenol	ND		9.5	0.34	ug/L		10/15/13 07:49	10/17/13 16:13	1
4-Nitroaniline	ND		9.5	0.24	ug/L		10/15/13 07:49	10/17/13 16:13	1
4-Nitrophenol	ND		9.5	1.4	ug/L		10/15/13 07:49	10/17/13 16:13	1
Acenaphthene	ND *		4.8	0.39	ug/L		10/15/13 07:49	10/17/13 16:13	1
Acenaphthylene	ND *		4.8	0.36	ug/L		10/15/13 07:49	10/17/13 16:13	1
Acetophenone	ND		4.8	0.51	ug/L		10/15/13 07:49	10/17/13 16:13	1
Anthracene	ND		4.8	0.27	ug/L		10/15/13 07:49	10/17/13 16:13	1
Atrazine	ND		4.8	0.44	ug/L		10/15/13 07:49	10/17/13 16:13	1
Benzaldehyde	ND *		4.8	0.25	ug/L		10/15/13 07:49	10/17/13 16:13	1
Benzo(a)anthracene	ND		4.8	0.34	ug/L		10/15/13 07:49	10/17/13 16:13	1
Benzo(a)pyrene	ND		4.8	0.45	ug/L		10/15/13 07:49	10/17/13 16:13	1
Benzo(b)fluoranthene	ND		4.8	0.32	ug/L		10/15/13 07:49	10/17/13 16:13	1
Benzo(g,h,i)perylene	ND		4.8	0.33	ug/L		10/15/13 07:49	10/17/13 16:13	1
Benzo(k)fluoranthene	ND		4.8	0.69	ug/L		10/15/13 07:49	10/17/13 16:13	1
Biphenyl	ND		4.8	0.62	ug/L		10/15/13 07:49	10/17/13 16:13	1
bis (2-chloroisopropyl) ether	ND		4.8	0.50	ug/L		10/15/13 07:49	10/17/13 16:13	1
Bis(2-chloroethoxy)methane	ND		4.8	0.33	ug/L		10/15/13 07:49	10/17/13 16:13	1
Bis(2-chloroethyl)ether	ND *		4.8	0.38	ug/L		10/15/13 07:49	10/17/13 16:13	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.7	ug/L		10/15/13 07:49	10/17/13 16:13	1
Butyl benzyl phthalate	ND		4.8	0.40	ug/L		10/15/13 07:49	10/17/13 16:13	1
Caprolactam	ND *		4.8	2.1	ug/L		10/15/13 07:49	10/17/13 16:13	1
Carbazole	ND		4.8	0.29	ug/L		10/15/13 07:49	10/17/13 16:13	1
Chrysene	ND		4.8	0.31	ug/L		10/15/13 07:49	10/17/13 16:13	1
Dibenz(a,h)anthracene	ND		4.8	0.40	ug/L		10/15/13 07:49	10/17/13 16:13	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-2

Lab Sample ID: 480-47822-3

Date Collected: 10/09/13 14:07

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		9.5	0.49	ug/L		10/15/13 07:49	10/17/13 16:13	1
Diethyl phthalate	ND		4.8	0.21	ug/L		10/15/13 07:49	10/17/13 16:13	1
Dimethyl phthalate	ND		4.8	0.34	ug/L		10/15/13 07:49	10/17/13 16:13	1
Di-n-butyl phthalate	ND		4.8	0.30	ug/L		10/15/13 07:49	10/17/13 16:13	1
Di-n-octyl phthalate	ND		4.8	0.45	ug/L		10/15/13 07:49	10/17/13 16:13	1
Fluoranthene	ND		4.8	0.38	ug/L		10/15/13 07:49	10/17/13 16:13	1
Fluorene	ND		4.8	0.34	ug/L		10/15/13 07:49	10/17/13 16:13	1
Hexachlorobenzene	ND		4.8	0.49	ug/L		10/15/13 07:49	10/17/13 16:13	1
Hexachlorobutadiene	ND		4.8	0.65	ug/L		10/15/13 07:49	10/17/13 16:13	1
Hexachlorocyclopentadiene	ND		4.8	0.56	ug/L		10/15/13 07:49	10/17/13 16:13	1
Hexachloroethane	ND		4.8	0.56	ug/L		10/15/13 07:49	10/17/13 16:13	1
Indeno(1,2,3-cd)pyrene	ND		4.8	0.45	ug/L		10/15/13 07:49	10/17/13 16:13	1
Isophorone	ND		4.8	0.41	ug/L		10/15/13 07:49	10/17/13 16:13	1
Naphthalene	ND		4.8	0.72	ug/L		10/15/13 07:49	10/17/13 16:13	1
Nitrobenzene	ND		4.8	0.28	ug/L		10/15/13 07:49	10/17/13 16:13	1
N-Nitrosodi-n-propylamine	ND		4.8	0.51	ug/L		10/15/13 07:49	10/17/13 16:13	1
N-Nitrosodiphenylamine	ND		4.8	0.49	ug/L		10/15/13 07:49	10/17/13 16:13	1
Pentachlorophenol	ND		9.5	2.1	ug/L		10/15/13 07:49	10/17/13 16:13	1
Phenanthrene	ND		4.8	0.42	ug/L		10/15/13 07:49	10/17/13 16:13	1
Phenol	ND		4.8	0.37	ug/L		10/15/13 07:49	10/17/13 16:13	1
Pyrene	ND		4.8	0.32	ug/L		10/15/13 07:49	10/17/13 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	100		52 - 132	10/15/13 07:49	10/17/13 16:13	1
2-Fluorobiphenyl	77		48 - 120	10/15/13 07:49	10/17/13 16:13	1
2-Fluorophenol	43		20 - 120	10/15/13 07:49	10/17/13 16:13	1
Nitrobenzene-d5	74		46 - 120	10/15/13 07:49	10/17/13 16:13	1
Phenol-d5	31		16 - 120	10/15/13 07:49	10/17/13 16:13	1
p-Terphenyl-d14	70		67 - 150	10/15/13 07:49	10/17/13 16:13	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.12	J B	0.24	0.044	ug/L		10/16/13 07:30	10/17/13 14:17	5
4,4'-DDE	ND		0.24	0.055	ug/L		10/16/13 07:30	10/17/13 14:17	5
4,4'-DDT	0.14	J B	0.24	0.052	ug/L		10/16/13 07:30	10/17/13 14:17	5
Aldrin	0.092	J	0.24	0.031	ug/L		10/16/13 07:30	10/17/13 14:17	5
alpha-BHC	0.065	J	0.24	0.031	ug/L		10/16/13 07:30	10/17/13 14:17	5
alpha-Chlordane	ND		0.24	0.070	ug/L		10/16/13 07:30	10/17/13 14:17	5
beta-BHC	0.19	J	0.24	0.12	ug/L		10/16/13 07:30	10/17/13 14:17	5
delta-BHC	ND		0.24	0.047	ug/L		10/16/13 07:30	10/17/13 14:17	5
Dieldrin	ND		0.24	0.046	ug/L		10/16/13 07:30	10/17/13 14:17	5
Endosulfan I	ND		0.24	0.052	ug/L		10/16/13 07:30	10/17/13 14:17	5
Endosulfan II	ND		0.24	0.057	ug/L		10/16/13 07:30	10/17/13 14:17	5
Endosulfan sulfate	ND		0.24	0.074	ug/L		10/16/13 07:30	10/17/13 14:17	5
Endrin	ND		0.24	0.065	ug/L		10/16/13 07:30	10/17/13 14:17	5
Endrin aldehyde	ND		0.24	0.077	ug/L		10/16/13 07:30	10/17/13 14:17	5
Endrin ketone	ND		0.24	0.057	ug/L		10/16/13 07:30	10/17/13 14:17	5
gamma-BHC (Lindane)	0.042	J	0.24	0.028	ug/L		10/16/13 07:30	10/17/13 14:17	5
gamma-Chlordane	0.069	J B	0.24	0.052	ug/L		10/16/13 07:30	10/17/13 14:17	5
Heptachlor	ND		0.24	0.040	ug/L		10/16/13 07:30	10/17/13 14:17	5

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-2

Lab Sample ID: 480-47822-3

Date Collected: 10/09/13 14:07

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.24	0.025	ug/L		10/16/13 07:30	10/17/13 14:17	5
Methoxychlor	0.082	J	0.24	0.067	ug/L		10/16/13 07:30	10/17/13 14:17	5
Toxaphene	ND		2.4	0.57	ug/L		10/16/13 07:30	10/17/13 14:17	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		20 - 120				10/16/13 07:30	10/17/13 14:17	5
Tetrachloro-m-xylene	127	X	36 - 120				10/16/13 07:30	10/17/13 14:17	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		10/15/13 06:33	10/16/13 09:57	1
PCB-1221	ND		0.48	0.17	ug/L		10/15/13 06:33	10/16/13 09:57	1
PCB-1232	ND		0.48	0.17	ug/L		10/15/13 06:33	10/16/13 09:57	1
PCB-1242	ND		0.48	0.17	ug/L		10/15/13 06:33	10/16/13 09:57	1
PCB-1248	ND		0.48	0.17	ug/L		10/15/13 06:33	10/16/13 09:57	1
PCB-1254	ND		0.48	0.24	ug/L		10/15/13 06:33	10/16/13 09:57	1
PCB-1260	ND		0.48	0.24	ug/L		10/15/13 06:33	10/16/13 09:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		19 - 126				10/15/13 06:33	10/16/13 09:57	1
Tetrachloro-m-xylene	62		23 - 127				10/15/13 06:33	10/16/13 09:57	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.47	0.14	ug/L		10/14/13 14:59	10/16/13 13:08	1
Silvex (2,4,5-TP)	ND		0.47	0.34	ug/L		10/14/13 14:59	10/16/13 13:08	1
2,4-D	ND		0.47	0.38	ug/L		10/14/13 14:59	10/16/13 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	101		40 - 135				10/14/13 14:59	10/16/13 13:08	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.29		0.20		mg/L		10/14/13 08:45	10/17/13 12:09	1
Antimony	ND		0.020		mg/L		10/14/13 08:45	10/17/13 12:09	1
Arsenic	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:09	1
Barium	0.11		0.0020		mg/L		10/14/13 08:45	10/17/13 12:09	1
Beryllium	ND		0.0020		mg/L		10/14/13 08:45	10/17/13 12:09	1
Cadmium	ND		0.0010		mg/L		10/14/13 08:45	10/17/13 12:09	1
Calcium	112		0.50		mg/L		10/14/13 08:45	10/17/13 12:09	1
Chromium	ND		0.0040		mg/L		10/14/13 08:45	10/17/13 12:09	1
Cobalt	ND		0.0040		mg/L		10/14/13 08:45	10/17/13 12:09	1
Copper	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:09	1
Iron	0.29		0.050		mg/L		10/14/13 08:45	10/17/13 12:09	1
Lead	ND		0.0050		mg/L		10/14/13 08:45	10/17/13 12:09	1
Magnesium	24.3		0.20		mg/L		10/14/13 08:45	10/17/13 12:09	1
Manganese	0.36		0.0030		mg/L		10/14/13 08:45	10/17/13 12:09	1
Nickel	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:09	1
Potassium	3.6		0.50		mg/L		10/14/13 08:45	10/19/13 10:56	1
Selenium	ND		0.015		mg/L		10/14/13 08:45	10/17/13 12:09	1
Silver	ND		0.0030		mg/L		10/14/13 08:45	10/17/13 12:09	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-2

Lab Sample ID: 480-47822-3

Date Collected: 10/09/13 14:07

Matrix: Water

Date Received: 10/11/13 12:25

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	133		1.0		mg/L		10/14/13 08:45	10/17/13 12:09	1
Thallium	ND		0.020		mg/L		10/14/13 08:45	10/17/13 12:09	1
Vanadium	ND		0.0050		mg/L		10/14/13 08:45	10/17/13 12:09	1
Zinc	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		10/14/13 09:03	10/14/13 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		10/17/13 09:45	10/17/13 19:54	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-4

Date Collected: 10/10/13 09:28

Date Received: 10/11/13 12:25

Lab Sample ID: 480-47822-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/19/13 14:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/19/13 14:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/19/13 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/19/13 14:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/19/13 14:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/19/13 14:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/19/13 14:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/19/13 14:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/19/13 14:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/19/13 14:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/19/13 14:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/19/13 14:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/19/13 14:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/19/13 14:09	1
2-Hexanone	ND		5.0	1.2	ug/L			10/19/13 14:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/19/13 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/19/13 14:09	1
Acetone	7.5	J	10	3.0	ug/L			10/19/13 14:09	1
Benzene	ND		1.0	0.41	ug/L			10/19/13 14:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/19/13 14:09	1
Bromoform	ND		1.0	0.26	ug/L			10/19/13 14:09	1
Bromomethane	ND		1.0	0.69	ug/L			10/19/13 14:09	1
Carbon disulfide	0.46	J	1.0	0.19	ug/L			10/19/13 14:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/19/13 14:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/19/13 14:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/19/13 14:09	1
Chloroethane	ND		1.0	0.32	ug/L			10/19/13 14:09	1
Chloroform	ND		1.0	0.34	ug/L			10/19/13 14:09	1
Chloromethane	ND		1.0	0.35	ug/L			10/19/13 14:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/19/13 14:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/19/13 14:09	1
Cyclohexane	0.21	J	1.0	0.18	ug/L			10/19/13 14:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/19/13 14:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/19/13 14:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/19/13 14:09	1
Methyl acetate	ND		1.0	0.50	ug/L			10/19/13 14:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/19/13 14:09	1
Methylcyclohexane	0.31	J	1.0	0.16	ug/L			10/19/13 14:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/19/13 14:09	1
Styrene	ND		1.0	0.73	ug/L			10/19/13 14:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/19/13 14:09	1
Toluene	ND		1.0	0.51	ug/L			10/19/13 14:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/19/13 14:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/19/13 14:09	1
Trichloroethene	ND		1.0	0.46	ug/L			10/19/13 14:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/19/13 14:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/19/13 14:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/19/13 14:09	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-4

Lab Sample ID: 480-47822-4

Date Collected: 10/10/13 09:28

Matrix: Water

Date Received: 10/11/13 12:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		10/19/13 14:09	1
Toluene-d8 (Surr)	101		71 - 126		10/19/13 14:09	1
4-Bromofluorobenzene (Surr)	99		73 - 120		10/19/13 14:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.9	0.47	ug/L		10/15/13 07:49	10/17/13 16:41	1
2,4,6-Trichlorophenol	ND		4.9	0.59	ug/L		10/15/13 07:49	10/17/13 16:41	1
2,4-Dichlorophenol	ND		4.9	0.50	ug/L		10/15/13 07:49	10/17/13 16:41	1
2,4-Dimethylphenol	ND		4.9	0.49	ug/L		10/15/13 07:49	10/17/13 16:41	1
2,4-Dinitrophenol	ND		9.7	2.2	ug/L		10/15/13 07:49	10/17/13 16:41	1
2,4-Dinitrotoluene	ND		4.9	0.43	ug/L		10/15/13 07:49	10/17/13 16:41	1
2,6-Dinitrotoluene	ND *		4.9	0.39	ug/L		10/15/13 07:49	10/17/13 16:41	1
2-Chloronaphthalene	ND		4.9	0.45	ug/L		10/15/13 07:49	10/17/13 16:41	1
2-Chlorophenol	ND		4.9	0.51	ug/L		10/15/13 07:49	10/17/13 16:41	1
2-Methylnaphthalene	ND		4.9	0.58	ug/L		10/15/13 07:49	10/17/13 16:41	1
2-Methylphenol	ND		4.9	0.39	ug/L		10/15/13 07:49	10/17/13 16:41	1
2-Nitroaniline	ND		9.7	0.41	ug/L		10/15/13 07:49	10/17/13 16:41	1
2-Nitrophenol	ND		4.9	0.47	ug/L		10/15/13 07:49	10/17/13 16:41	1
3,3'-Dichlorobenzidine	ND		4.9	0.39	ug/L		10/15/13 07:49	10/17/13 16:41	1
3-Nitroaniline	ND *		9.7	0.47	ug/L		10/15/13 07:49	10/17/13 16:41	1
4,6-Dinitro-2-methylphenol	ND		9.7	2.1	ug/L		10/15/13 07:49	10/17/13 16:41	1
4-Bromophenyl phenyl ether	ND		4.9	0.44	ug/L		10/15/13 07:49	10/17/13 16:41	1
4-Chloro-3-methylphenol	ND		4.9	0.44	ug/L		10/15/13 07:49	10/17/13 16:41	1
4-Chloroaniline	ND *		4.9	0.57	ug/L		10/15/13 07:49	10/17/13 16:41	1
4-Chlorophenyl phenyl ether	ND *		4.9	0.34	ug/L		10/15/13 07:49	10/17/13 16:41	1
4-Methylphenol	ND		9.7	0.35	ug/L		10/15/13 07:49	10/17/13 16:41	1
4-Nitroaniline	ND		9.7	0.24	ug/L		10/15/13 07:49	10/17/13 16:41	1
4-Nitrophenol	ND		9.7	1.5	ug/L		10/15/13 07:49	10/17/13 16:41	1
Acenaphthene	ND *		4.9	0.40	ug/L		10/15/13 07:49	10/17/13 16:41	1
Acenaphthylene	ND *		4.9	0.37	ug/L		10/15/13 07:49	10/17/13 16:41	1
Acetophenone	ND		4.9	0.52	ug/L		10/15/13 07:49	10/17/13 16:41	1
Anthracene	ND		4.9	0.27	ug/L		10/15/13 07:49	10/17/13 16:41	1
Atrazine	ND		4.9	0.45	ug/L		10/15/13 07:49	10/17/13 16:41	1
Benzaldehyde	ND *		4.9	0.26	ug/L		10/15/13 07:49	10/17/13 16:41	1
Benzo(a)anthracene	ND		4.9	0.35	ug/L		10/15/13 07:49	10/17/13 16:41	1
Benzo(a)pyrene	ND		4.9	0.46	ug/L		10/15/13 07:49	10/17/13 16:41	1
Benzo(b)fluoranthene	ND		4.9	0.33	ug/L		10/15/13 07:49	10/17/13 16:41	1
Benzo(g,h,i)perylene	ND		4.9	0.34	ug/L		10/15/13 07:49	10/17/13 16:41	1
Benzo(k)fluoranthene	ND		4.9	0.71	ug/L		10/15/13 07:49	10/17/13 16:41	1
Biphenyl	ND		4.9	0.63	ug/L		10/15/13 07:49	10/17/13 16:41	1
bis (2-chloroisopropyl) ether	ND		4.9	0.51	ug/L		10/15/13 07:49	10/17/13 16:41	1
Bis(2-chloroethoxy)methane	ND		4.9	0.34	ug/L		10/15/13 07:49	10/17/13 16:41	1
Bis(2-chloroethyl)ether	ND *		4.9	0.39	ug/L		10/15/13 07:49	10/17/13 16:41	1
Bis(2-ethylhexyl) phthalate	ND		4.9	1.7	ug/L		10/15/13 07:49	10/17/13 16:41	1
Butyl benzyl phthalate	ND		4.9	0.41	ug/L		10/15/13 07:49	10/17/13 16:41	1
Caprolactam	ND *		4.9	2.1	ug/L		10/15/13 07:49	10/17/13 16:41	1
Carbazole	ND		4.9	0.29	ug/L		10/15/13 07:49	10/17/13 16:41	1
Chrysene	ND		4.9	0.32	ug/L		10/15/13 07:49	10/17/13 16:41	1
Dibenz(a,h)anthracene	ND		4.9	0.41	ug/L		10/15/13 07:49	10/17/13 16:41	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-4

Lab Sample ID: 480-47822-4

Date Collected: 10/10/13 09:28

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		9.7	0.50	ug/L		10/15/13 07:49	10/17/13 16:41	1
Diethyl phthalate	ND		4.9	0.21	ug/L		10/15/13 07:49	10/17/13 16:41	1
Dimethyl phthalate	ND		4.9	0.35	ug/L		10/15/13 07:49	10/17/13 16:41	1
Di-n-butyl phthalate	ND		4.9	0.30	ug/L		10/15/13 07:49	10/17/13 16:41	1
Di-n-octyl phthalate	ND		4.9	0.46	ug/L		10/15/13 07:49	10/17/13 16:41	1
Fluoranthene	ND		4.9	0.39	ug/L		10/15/13 07:49	10/17/13 16:41	1
Fluorene	ND		4.9	0.35	ug/L		10/15/13 07:49	10/17/13 16:41	1
Hexachlorobenzene	ND		4.9	0.50	ug/L		10/15/13 07:49	10/17/13 16:41	1
Hexachlorobutadiene	ND		4.9	0.66	ug/L		10/15/13 07:49	10/17/13 16:41	1
Hexachlorocyclopentadiene	ND		4.9	0.57	ug/L		10/15/13 07:49	10/17/13 16:41	1
Hexachloroethane	ND		4.9	0.57	ug/L		10/15/13 07:49	10/17/13 16:41	1
Indeno(1,2,3-cd)pyrene	ND		4.9	0.46	ug/L		10/15/13 07:49	10/17/13 16:41	1
Isophorone	ND		4.9	0.42	ug/L		10/15/13 07:49	10/17/13 16:41	1
Naphthalene	ND		4.9	0.74	ug/L		10/15/13 07:49	10/17/13 16:41	1
Nitrobenzene	ND		4.9	0.28	ug/L		10/15/13 07:49	10/17/13 16:41	1
N-Nitrosodi-n-propylamine	ND		4.9	0.52	ug/L		10/15/13 07:49	10/17/13 16:41	1
N-Nitrosodiphenylamine	ND		4.9	0.50	ug/L		10/15/13 07:49	10/17/13 16:41	1
Pentachlorophenol	ND		9.7	2.1	ug/L		10/15/13 07:49	10/17/13 16:41	1
Phenanthrene	ND		4.9	0.43	ug/L		10/15/13 07:49	10/17/13 16:41	1
Phenol	ND		4.9	0.38	ug/L		10/15/13 07:49	10/17/13 16:41	1
Pyrene	ND		4.9	0.33	ug/L		10/15/13 07:49	10/17/13 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		52 - 132	10/15/13 07:49	10/17/13 16:41	1
2-Fluorobiphenyl	62		48 - 120	10/15/13 07:49	10/17/13 16:41	1
2-Fluorophenol	40		20 - 120	10/15/13 07:49	10/17/13 16:41	1
Nitrobenzene-d5	64		46 - 120	10/15/13 07:49	10/17/13 16:41	1
Phenol-d5	31		16 - 120	10/15/13 07:49	10/17/13 16:41	1
p-Terphenyl-d14	54	X	67 - 150	10/15/13 07:49	10/17/13 16:41	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.028	J B	0.051	0.0094	ug/L		10/16/13 07:30	10/17/13 14:35	1
4,4'-DDE	0.012	J	0.051	0.012	ug/L		10/16/13 07:30	10/17/13 14:35	1
4,4'-DDT	0.030	J B	0.051	0.011	ug/L		10/16/13 07:30	10/17/13 14:35	1
Aldrin	0.035	J	0.051	0.0067	ug/L		10/16/13 07:30	10/17/13 14:35	1
alpha-BHC	0.055		0.051	0.0067	ug/L		10/16/13 07:30	10/17/13 14:35	1
alpha-Chlordane	ND		0.051	0.015	ug/L		10/16/13 07:30	10/17/13 14:35	1
beta-BHC	ND		0.051	0.025	ug/L		10/16/13 07:30	10/17/13 14:35	1
delta-BHC	0.017	J	0.051	0.010	ug/L		10/16/13 07:30	10/17/13 14:35	1
Dieldrin	0.013	J	0.051	0.010	ug/L		10/16/13 07:30	10/17/13 14:35	1
Endosulfan I	ND		0.051	0.011	ug/L		10/16/13 07:30	10/17/13 14:35	1
Endosulfan II	ND		0.051	0.012	ug/L		10/16/13 07:30	10/17/13 14:35	1
Endosulfan sulfate	ND		0.051	0.016	ug/L		10/16/13 07:30	10/17/13 14:35	1
Endrin	ND		0.051	0.014	ug/L		10/16/13 07:30	10/17/13 14:35	1
Endrin aldehyde	0.044	J	0.051	0.017	ug/L		10/16/13 07:30	10/17/13 14:35	1
Endrin ketone	ND		0.051	0.012	ug/L		10/16/13 07:30	10/17/13 14:35	1
gamma-BHC (Lindane)	0.019	J	0.051	0.0061	ug/L		10/16/13 07:30	10/17/13 14:35	1
gamma-Chlordane	0.039	J B	0.051	0.011	ug/L		10/16/13 07:30	10/17/13 14:35	1
Heptachlor	ND		0.051	0.0087	ug/L		10/16/13 07:30	10/17/13 14:35	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-4

Lab Sample ID: 480-47822-4

Date Collected: 10/10/13 09:28

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	0.0062	J	0.051	0.0054	ug/L		10/16/13 07:30	10/17/13 14:35	1
Methoxychlor	0.028	J	0.051	0.014	ug/L		10/16/13 07:30	10/17/13 14:35	1
Toxaphene	ND		0.51	0.12	ug/L		10/16/13 07:30	10/17/13 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	18	X	20 - 120				10/16/13 07:30	10/17/13 14:35	1
Tetrachloro-m-xylene	80		36 - 120				10/16/13 07:30	10/17/13 14:35	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		10/15/13 06:33	10/16/13 10:45	1
PCB-1221	ND		0.52	0.18	ug/L		10/15/13 06:33	10/16/13 10:45	1
PCB-1232	ND		0.52	0.18	ug/L		10/15/13 06:33	10/16/13 10:45	1
PCB-1242	ND		0.52	0.18	ug/L		10/15/13 06:33	10/16/13 10:45	1
PCB-1248	ND		0.52	0.18	ug/L		10/15/13 06:33	10/16/13 10:45	1
PCB-1254	ND		0.52	0.26	ug/L		10/15/13 06:33	10/16/13 10:45	1
PCB-1260	ND		0.52	0.26	ug/L		10/15/13 06:33	10/16/13 10:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	43		19 - 126				10/15/13 06:33	10/16/13 10:45	1
Tetrachloro-m-xylene	56		23 - 127				10/15/13 06:33	10/16/13 10:45	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.47	0.14	ug/L		10/14/13 14:59	10/16/13 15:07	1
Silvex (2,4,5-TP)	ND		0.47	0.34	ug/L		10/14/13 14:59	10/16/13 15:07	1
2,4-D	ND		0.47	0.38	ug/L		10/14/13 14:59	10/16/13 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	93		40 - 135				10/14/13 14:59	10/16/13 15:07	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7.9		0.20		mg/L		10/14/13 08:45	10/17/13 12:27	1
Antimony	ND		0.020		mg/L		10/14/13 08:45	10/17/13 12:27	1
Arsenic	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:27	1
Barium	0.17		0.0020		mg/L		10/14/13 08:45	10/17/13 12:27	1
Beryllium	ND		0.0020		mg/L		10/14/13 08:45	10/17/13 12:27	1
Cadmium	ND		0.0010		mg/L		10/14/13 08:45	10/17/13 12:27	1
Calcium	228		0.50		mg/L		10/14/13 08:45	10/17/13 12:27	1
Chromium	0.012		0.0040		mg/L		10/14/13 08:45	10/17/13 12:27	1
Cobalt	ND		0.0040		mg/L		10/14/13 08:45	10/17/13 12:27	1
Copper	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:27	1
Iron	9.5		0.050		mg/L		10/14/13 08:45	10/17/13 12:27	1
Lead	ND		0.0050		mg/L		10/14/13 08:45	10/17/13 12:27	1
Magnesium	136		0.20		mg/L		10/14/13 08:45	10/17/13 12:27	1
Manganese	0.32		0.0030		mg/L		10/14/13 08:45	10/17/13 12:27	1
Nickel	0.010		0.010		mg/L		10/14/13 08:45	10/17/13 12:27	1
Potassium	8.3		0.50		mg/L		10/14/13 08:45	10/19/13 11:07	1
Selenium	ND		0.015		mg/L		10/14/13 08:45	10/17/13 12:27	1
Silver	ND		0.0030		mg/L		10/14/13 08:45	10/17/13 12:27	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-4

Lab Sample ID: 480-47822-4

Date Collected: 10/10/13 09:28

Matrix: Water

Date Received: 10/11/13 12:25

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	64.1		1.0		mg/L		10/14/13 08:45	10/17/13 12:27	1
Thallium	ND		0.020		mg/L		10/14/13 08:45	10/17/13 12:27	1
Vanadium	0.020		0.0050		mg/L		10/14/13 08:45	10/17/13 12:27	1
Zinc	0.028		0.010		mg/L		10/14/13 08:45	10/17/13 12:27	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum, Dissolved	0.40		0.20		mg/L		10/18/13 16:20	10/19/13 19:14	1
Antimony, Dissolved	ND		0.020		mg/L		10/18/13 16:20	10/19/13 19:14	1
Arsenic, Dissolved	ND		0.010		mg/L		10/18/13 16:20	10/19/13 19:14	1
Barium, Dissolved	0.13		0.0020		mg/L		10/18/13 16:20	10/19/13 19:14	1
Beryllium, Dissolved	ND		0.0020		mg/L		10/18/13 16:20	10/19/13 19:14	1
Cadmium, Dissolved	ND		0.0010		mg/L		10/18/13 16:20	10/19/13 19:14	1
Calcium, Dissolved	136		0.50		mg/L		10/18/13 16:20	10/19/13 19:14	1
Chromium, Dissolved	ND		0.0040		mg/L		10/18/13 16:20	10/19/13 19:14	1
Cobalt, Dissolved	ND		0.0040		mg/L		10/18/13 16:20	10/19/13 19:14	1
Copper, Dissolved	ND		0.010		mg/L		10/18/13 16:20	10/19/13 19:14	1
Iron, Dissolved	0.31		0.050		mg/L		10/18/13 16:20	10/19/13 19:14	1
Lead, Dissolved	ND		0.0050		mg/L		10/18/13 16:20	10/22/13 16:59	1
Magnesium, Dissolved	113		0.20		mg/L		10/18/13 16:20	10/19/13 19:14	1
Manganese, Dissolved	0.11		0.0030		mg/L		10/18/13 16:20	10/22/13 16:59	1
Nickel, Dissolved	ND		0.010		mg/L		10/18/13 16:20	10/19/13 19:14	1
Potassium, Dissolved	4.8		0.50		mg/L		10/18/13 16:20	10/19/13 19:14	1
Selenium, Dissolved	ND		0.015		mg/L		10/18/13 16:20	10/19/13 19:14	1
Silver, Dissolved	ND		0.0030		mg/L		10/18/13 16:20	10/19/13 19:14	1
Sodium, Dissolved	63.0		1.0		mg/L		10/18/13 16:20	10/19/13 19:14	1
Thallium, Dissolved	ND		0.020		mg/L		10/18/13 16:20	10/19/13 19:14	1
Vanadium, Dissolved	ND		0.0050		mg/L		10/18/13 16:20	10/19/13 19:14	1
Zinc, Dissolved	ND		0.010		mg/L		10/18/13 16:20	10/19/13 19:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		10/14/13 09:03	10/14/13 12:59	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	ND		0.00020		mg/L		10/18/13 08:40	10/18/13 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		10/17/13 09:45	10/17/13 19:53	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Equipment Blank

Lab Sample ID: 480-47822-5

Date Collected: 10/09/13 13:30

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/20/13 02:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/20/13 02:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/20/13 02:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/20/13 02:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/20/13 02:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/20/13 02:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/20/13 02:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/20/13 02:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/20/13 02:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/20/13 02:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/20/13 02:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/20/13 02:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/20/13 02:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/20/13 02:52	1
2-Hexanone	ND		5.0	1.2	ug/L			10/20/13 02:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/20/13 02:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/20/13 02:52	1
Acetone	ND		10	3.0	ug/L			10/20/13 02:52	1
Benzene	ND		1.0	0.41	ug/L			10/20/13 02:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/20/13 02:52	1
Bromoform	ND		1.0	0.26	ug/L			10/20/13 02:52	1
Bromomethane	ND		1.0	0.69	ug/L			10/20/13 02:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/20/13 02:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/20/13 02:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/20/13 02:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/20/13 02:52	1
Chloroethane	ND		1.0	0.32	ug/L			10/20/13 02:52	1
Chloroform	ND		1.0	0.34	ug/L			10/20/13 02:52	1
Chloromethane	ND		1.0	0.35	ug/L			10/20/13 02:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/20/13 02:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/20/13 02:52	1
Cyclohexane	ND		1.0	0.18	ug/L			10/20/13 02:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/20/13 02:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/20/13 02:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/20/13 02:52	1
Methyl acetate	ND		1.0	0.50	ug/L			10/20/13 02:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/20/13 02:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/20/13 02:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/20/13 02:52	1
Styrene	ND		1.0	0.73	ug/L			10/20/13 02:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/20/13 02:52	1
Toluene	ND		1.0	0.51	ug/L			10/20/13 02:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/20/13 02:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/20/13 02:52	1
Trichloroethene	ND		1.0	0.46	ug/L			10/20/13 02:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/20/13 02:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/20/13 02:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/20/13 02:52	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Equipment Blank

Lab Sample ID: 480-47822-5

Date Collected: 10/09/13 13:30

Matrix: Water

Date Received: 10/11/13 12:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		10/20/13 02:52	1
Toluene-d8 (Surr)	102		71 - 126		10/20/13 02:52	1
4-Bromofluorobenzene (Surr)	99		73 - 120		10/20/13 02:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.9	0.47	ug/L		10/15/13 07:49	10/17/13 17:09	1
2,4,6-Trichlorophenol	ND		4.9	0.60	ug/L		10/15/13 07:49	10/17/13 17:09	1
2,4-Dichlorophenol	ND		4.9	0.50	ug/L		10/15/13 07:49	10/17/13 17:09	1
2,4-Dimethylphenol	ND		4.9	0.49	ug/L		10/15/13 07:49	10/17/13 17:09	1
2,4-Dinitrophenol	ND		9.8	2.2	ug/L		10/15/13 07:49	10/17/13 17:09	1
2,4-Dinitrotoluene	ND		4.9	0.44	ug/L		10/15/13 07:49	10/17/13 17:09	1
2,6-Dinitrotoluene	ND *		4.9	0.39	ug/L		10/15/13 07:49	10/17/13 17:09	1
2-Chloronaphthalene	ND		4.9	0.45	ug/L		10/15/13 07:49	10/17/13 17:09	1
2-Chlorophenol	ND		4.9	0.52	ug/L		10/15/13 07:49	10/17/13 17:09	1
2-Methylnaphthalene	ND		4.9	0.59	ug/L		10/15/13 07:49	10/17/13 17:09	1
2-Methylphenol	ND		4.9	0.39	ug/L		10/15/13 07:49	10/17/13 17:09	1
2-Nitroaniline	ND		9.8	0.41	ug/L		10/15/13 07:49	10/17/13 17:09	1
2-Nitrophenol	ND		4.9	0.47	ug/L		10/15/13 07:49	10/17/13 17:09	1
3,3'-Dichlorobenzidine	ND		4.9	0.39	ug/L		10/15/13 07:49	10/17/13 17:09	1
3-Nitroaniline	ND *		9.8	0.47	ug/L		10/15/13 07:49	10/17/13 17:09	1
4,6-Dinitro-2-methylphenol	ND		9.8	2.2	ug/L		10/15/13 07:49	10/17/13 17:09	1
4-Bromophenyl phenyl ether	ND		4.9	0.44	ug/L		10/15/13 07:49	10/17/13 17:09	1
4-Chloro-3-methylphenol	ND		4.9	0.44	ug/L		10/15/13 07:49	10/17/13 17:09	1
4-Chloroaniline	ND *		4.9	0.58	ug/L		10/15/13 07:49	10/17/13 17:09	1
4-Chlorophenyl phenyl ether	ND *		4.9	0.34	ug/L		10/15/13 07:49	10/17/13 17:09	1
4-Methylphenol	ND		9.8	0.35	ug/L		10/15/13 07:49	10/17/13 17:09	1
4-Nitroaniline	ND		9.8	0.25	ug/L		10/15/13 07:49	10/17/13 17:09	1
4-Nitrophenol	ND		9.8	1.5	ug/L		10/15/13 07:49	10/17/13 17:09	1
Acenaphthene	ND *		4.9	0.40	ug/L		10/15/13 07:49	10/17/13 17:09	1
Acenaphthylene	ND *		4.9	0.37	ug/L		10/15/13 07:49	10/17/13 17:09	1
Acetophenone	ND		4.9	0.53	ug/L		10/15/13 07:49	10/17/13 17:09	1
Anthracene	ND		4.9	0.27	ug/L		10/15/13 07:49	10/17/13 17:09	1
Atrazine	ND		4.9	0.45	ug/L		10/15/13 07:49	10/17/13 17:09	1
Benzaldehyde	ND *		4.9	0.26	ug/L		10/15/13 07:49	10/17/13 17:09	1
Benzo(a)anthracene	ND		4.9	0.35	ug/L		10/15/13 07:49	10/17/13 17:09	1
Benzo(a)pyrene	ND		4.9	0.46	ug/L		10/15/13 07:49	10/17/13 17:09	1
Benzo(b)fluoranthene	ND		4.9	0.33	ug/L		10/15/13 07:49	10/17/13 17:09	1
Benzo(g,h,i)perylene	ND		4.9	0.34	ug/L		10/15/13 07:49	10/17/13 17:09	1
Benzo(k)fluoranthene	ND		4.9	0.72	ug/L		10/15/13 07:49	10/17/13 17:09	1
Biphenyl	ND		4.9	0.64	ug/L		10/15/13 07:49	10/17/13 17:09	1
bis (2-chloroisopropyl) ether	ND		4.9	0.51	ug/L		10/15/13 07:49	10/17/13 17:09	1
Bis(2-chloroethoxy)methane	ND		4.9	0.34	ug/L		10/15/13 07:49	10/17/13 17:09	1
Bis(2-chloroethyl)ether	ND *		4.9	0.39	ug/L		10/15/13 07:49	10/17/13 17:09	1
Bis(2-ethylhexyl) phthalate	ND		4.9	1.8	ug/L		10/15/13 07:49	10/17/13 17:09	1
Butyl benzyl phthalate	ND		4.9	0.41	ug/L		10/15/13 07:49	10/17/13 17:09	1
Caprolactam	ND *		4.9	2.2	ug/L		10/15/13 07:49	10/17/13 17:09	1
Carbazole	ND		4.9	0.29	ug/L		10/15/13 07:49	10/17/13 17:09	1
Chrysene	ND		4.9	0.32	ug/L		10/15/13 07:49	10/17/13 17:09	1
Dibenz(a,h)anthracene	ND		4.9	0.41	ug/L		10/15/13 07:49	10/17/13 17:09	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Equipment Blank

Lab Sample ID: 480-47822-5

Date Collected: 10/09/13 13:30

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		9.8	0.50	ug/L		10/15/13 07:49	10/17/13 17:09	1
Diethyl phthalate	ND		4.9	0.22	ug/L		10/15/13 07:49	10/17/13 17:09	1
Dimethyl phthalate	ND		4.9	0.35	ug/L		10/15/13 07:49	10/17/13 17:09	1
Di-n-butyl phthalate	ND		4.9	0.30	ug/L		10/15/13 07:49	10/17/13 17:09	1
Di-n-octyl phthalate	ND		4.9	0.46	ug/L		10/15/13 07:49	10/17/13 17:09	1
Fluoranthene	ND		4.9	0.39	ug/L		10/15/13 07:49	10/17/13 17:09	1
Fluorene	ND		4.9	0.35	ug/L		10/15/13 07:49	10/17/13 17:09	1
Hexachlorobenzene	ND		4.9	0.50	ug/L		10/15/13 07:49	10/17/13 17:09	1
Hexachlorobutadiene	ND		4.9	0.67	ug/L		10/15/13 07:49	10/17/13 17:09	1
Hexachlorocyclopentadiene	ND		4.9	0.58	ug/L		10/15/13 07:49	10/17/13 17:09	1
Hexachloroethane	ND		4.9	0.58	ug/L		10/15/13 07:49	10/17/13 17:09	1
Indeno(1,2,3-cd)pyrene	ND		4.9	0.46	ug/L		10/15/13 07:49	10/17/13 17:09	1
Isophorone	ND		4.9	0.42	ug/L		10/15/13 07:49	10/17/13 17:09	1
Naphthalene	ND		4.9	0.75	ug/L		10/15/13 07:49	10/17/13 17:09	1
Nitrobenzene	ND		4.9	0.28	ug/L		10/15/13 07:49	10/17/13 17:09	1
N-Nitrosodi-n-propylamine	ND		4.9	0.53	ug/L		10/15/13 07:49	10/17/13 17:09	1
N-Nitrosodiphenylamine	ND		4.9	0.50	ug/L		10/15/13 07:49	10/17/13 17:09	1
Pentachlorophenol	ND		9.8	2.2	ug/L		10/15/13 07:49	10/17/13 17:09	1
Phenanthrene	ND		4.9	0.43	ug/L		10/15/13 07:49	10/17/13 17:09	1
Phenol	ND		4.9	0.38	ug/L		10/15/13 07:49	10/17/13 17:09	1
Pyrene	ND		4.9	0.33	ug/L		10/15/13 07:49	10/17/13 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	84		52 - 132	10/15/13 07:49	10/17/13 17:09	1
2-Fluorobiphenyl	77		48 - 120	10/15/13 07:49	10/17/13 17:09	1
2-Fluorophenol	43		20 - 120	10/15/13 07:49	10/17/13 17:09	1
Nitrobenzene-d5	77		46 - 120	10/15/13 07:49	10/17/13 17:09	1
Phenol-d5	32		16 - 120	10/15/13 07:49	10/17/13 17:09	1
p-Terphenyl-d14	94		67 - 150	10/15/13 07:49	10/17/13 17:09	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.046	0.0085	ug/L		10/16/13 09:07	10/17/13 15:10	1
4,4'-DDE	ND		0.046	0.011	ug/L		10/16/13 09:07	10/17/13 15:10	1
4,4'-DDT	ND		0.046	0.010	ug/L		10/16/13 09:07	10/17/13 15:10	1
Aldrin	ND		0.046	0.0061	ug/L		10/16/13 09:07	10/17/13 15:10	1
alpha-BHC	ND		0.046	0.0061	ug/L		10/16/13 09:07	10/17/13 15:10	1
alpha-Chlordane	ND		0.046	0.014	ug/L		10/16/13 09:07	10/17/13 15:10	1
beta-BHC	ND		0.046	0.023	ug/L		10/16/13 09:07	10/17/13 15:10	1
delta-BHC	0.036	J	0.046	0.0093	ug/L		10/16/13 09:07	10/17/13 15:10	1
Dieldrin	ND		0.046	0.0091	ug/L		10/16/13 09:07	10/17/13 15:10	1
Endosulfan I	ND		0.046	0.010	ug/L		10/16/13 09:07	10/17/13 15:10	1
Endosulfan II	ND		0.046	0.011	ug/L		10/16/13 09:07	10/17/13 15:10	1
Endosulfan sulfate	ND		0.046	0.015	ug/L		10/16/13 09:07	10/17/13 15:10	1
Endrin	ND		0.046	0.013	ug/L		10/16/13 09:07	10/17/13 15:10	1
Endrin aldehyde	ND		0.046	0.015	ug/L		10/16/13 09:07	10/17/13 15:10	1
Endrin ketone	ND		0.046	0.011	ug/L		10/16/13 09:07	10/17/13 15:10	1
gamma-BHC (Lindane)	0.0064	J	0.046	0.0056	ug/L		10/16/13 09:07	10/17/13 15:10	1
gamma-Chlordane	0.033	J B	0.046	0.010	ug/L		10/16/13 09:07	10/17/13 15:10	1
Heptachlor	ND		0.046	0.0079	ug/L		10/16/13 09:07	10/17/13 15:10	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Equipment Blank

Lab Sample ID: 480-47822-5

Date Collected: 10/09/13 13:30

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.046	0.0049	ug/L		10/16/13 09:07	10/17/13 15:10	1
Methoxychlor	ND		0.046	0.013	ug/L		10/16/13 09:07	10/17/13 15:10	1
Toxaphene	ND		0.46	0.11	ug/L		10/16/13 09:07	10/17/13 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	57		20 - 120				10/16/13 09:07	10/17/13 15:10	1
Tetrachloro-m-xylene	72		36 - 120				10/16/13 09:07	10/17/13 15:10	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		10/15/13 06:33	10/16/13 11:01	1
PCB-1221	ND		0.48	0.17	ug/L		10/15/13 06:33	10/16/13 11:01	1
PCB-1232	ND		0.48	0.17	ug/L		10/15/13 06:33	10/16/13 11:01	1
PCB-1242	ND		0.48	0.17	ug/L		10/15/13 06:33	10/16/13 11:01	1
PCB-1248	ND		0.48	0.17	ug/L		10/15/13 06:33	10/16/13 11:01	1
PCB-1254	ND		0.48	0.24	ug/L		10/15/13 06:33	10/16/13 11:01	1
PCB-1260	ND		0.48	0.24	ug/L		10/15/13 06:33	10/16/13 11:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	53		19 - 126				10/15/13 06:33	10/16/13 11:01	1
Tetrachloro-m-xylene	62		23 - 127				10/15/13 06:33	10/16/13 11:01	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.47	0.14	ug/L		10/14/13 14:59	10/16/13 16:36	1
Silvex (2,4,5-TP)	ND		0.47	0.34	ug/L		10/14/13 14:59	10/16/13 16:36	1
2,4-D	ND		0.47	0.38	ug/L		10/14/13 14:59	10/16/13 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	82		40 - 135				10/14/13 14:59	10/16/13 16:36	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		10/14/13 08:45	10/17/13 12:30	1
Antimony	ND		0.020		mg/L		10/14/13 08:45	10/17/13 12:30	1
Arsenic	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:30	1
Barium	ND		0.0020		mg/L		10/14/13 08:45	10/17/13 12:30	1
Beryllium	ND		0.0020		mg/L		10/14/13 08:45	10/17/13 12:30	1
Cadmium	ND		0.0010		mg/L		10/14/13 08:45	10/17/13 12:30	1
Calcium	0.66		0.50		mg/L		10/14/13 08:45	10/17/13 12:30	1
Chromium	ND		0.0040		mg/L		10/14/13 08:45	10/17/13 12:30	1
Cobalt	ND		0.0040		mg/L		10/14/13 08:45	10/17/13 12:30	1
Copper	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:30	1
Iron	ND		0.050		mg/L		10/14/13 08:45	10/17/13 12:30	1
Lead	ND		0.0050		mg/L		10/14/13 08:45	10/17/13 12:30	1
Magnesium	ND		0.20		mg/L		10/14/13 08:45	10/17/13 12:30	1
Manganese	ND		0.0030		mg/L		10/14/13 08:45	10/17/13 12:30	1
Nickel	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:30	1
Potassium	ND		0.50		mg/L		10/14/13 08:45	10/19/13 11:10	1
Selenium	ND		0.015		mg/L		10/14/13 08:45	10/17/13 12:30	1
Silver	ND		0.0030		mg/L		10/14/13 08:45	10/17/13 12:30	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Equipment Blank

Lab Sample ID: 480-47822-5

Date Collected: 10/09/13 13:30

Matrix: Water

Date Received: 10/11/13 12:25

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0		mg/L		10/14/13 08:45	10/17/13 12:30	1
Thallium	ND		0.020		mg/L		10/14/13 08:45	10/17/13 12:30	1
Vanadium	ND		0.0050		mg/L		10/14/13 08:45	10/17/13 12:30	1
Zinc	ND		0.010		mg/L		10/14/13 08:45	10/17/13 12:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		10/14/13 09:03	10/14/13 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		10/17/13 20:35	10/18/13 15:05	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-47822-6

Date Collected: 10/09/13 00:00

Matrix: Water

Date Received: 10/11/13 12:25

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/19/13 14:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/19/13 14:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/19/13 14:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/19/13 14:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/19/13 14:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/19/13 14:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/19/13 14:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/19/13 14:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/19/13 14:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/19/13 14:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/19/13 14:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/19/13 14:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/19/13 14:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/19/13 14:56	1
2-Hexanone	ND		5.0	1.2	ug/L			10/19/13 14:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/19/13 14:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/19/13 14:56	1
Acetone	ND		10	3.0	ug/L			10/19/13 14:56	1
Benzene	ND		1.0	0.41	ug/L			10/19/13 14:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/19/13 14:56	1
Bromoform	ND		1.0	0.26	ug/L			10/19/13 14:56	1
Bromomethane	ND		1.0	0.69	ug/L			10/19/13 14:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/19/13 14:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/19/13 14:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/19/13 14:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/19/13 14:56	1
Chloroethane	ND		1.0	0.32	ug/L			10/19/13 14:56	1
Chloroform	ND		1.0	0.34	ug/L			10/19/13 14:56	1
Chloromethane	ND		1.0	0.35	ug/L			10/19/13 14:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/19/13 14:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/19/13 14:56	1
Cyclohexane	ND		1.0	0.18	ug/L			10/19/13 14:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/19/13 14:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/19/13 14:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/19/13 14:56	1
Methyl acetate	ND		1.0	0.50	ug/L			10/19/13 14:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/19/13 14:56	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/19/13 14:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/19/13 14:56	1
Styrene	ND		1.0	0.73	ug/L			10/19/13 14:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/19/13 14:56	1
Toluene	ND		1.0	0.51	ug/L			10/19/13 14:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/19/13 14:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/19/13 14:56	1
Trichloroethene	ND		1.0	0.46	ug/L			10/19/13 14:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/19/13 14:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/19/13 14:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/19/13 14:56	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: Trip Blank

Date Collected: 10/09/13 00:00

Date Received: 10/11/13 12:25

Lab Sample ID: 480-47822-6

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		10/19/13 14:56	1
Toluene-d8 (Surr)	103		71 - 126		10/19/13 14:56	1
4-Bromofluorobenzene (Surr)	102		73 - 120		10/19/13 14:56	1

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-1

Date Collected: 10/09/13 15:30

Date Received: 10/11/13 12:25

Lab Sample ID: 480-47822-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146167	10/20/13 00:53	NMD1	TAL BUF
Total/NA	Prep	3510C			144942	10/15/13 07:49	MNF	TAL BUF
Total/NA	Analysis	8270D		1	145503	10/17/13 15:19	RMM	TAL BUF
Total/NA	Prep	3510C			144925	10/15/13 06:33	DLE	TAL BUF
Total/NA	Analysis	8082A		1	145203	10/16/13 09:25	JMM	TAL BUF
Total/NA	Prep	8151A			144807	10/14/13 14:59	TRG	TAL BUF
Total/NA	Analysis	8151A		1	145284	10/16/13 12:08	DGB	TAL BUF
Total/NA	Prep	3510C			145223	10/16/13 07:30	DLE	TAL BUF
Total/NA	Analysis	8081B		5	145569	10/17/13 10:00	LMW	TAL BUF
Total/NA	Prep	7470A			144689	10/14/13 09:03	JRK	TAL BUF
Total/NA	Analysis	7470A		1	144822	10/14/13 12:48	JRK	TAL BUF
Total/NA	Prep	3005A			144638	10/14/13 08:45	NMD2	TAL BUF
Total/NA	Analysis	6010C		1	145687	10/17/13 12:03	LMH	TAL BUF
Total/NA	Analysis	6010C		1	146303	10/19/13 10:51	LMH	TAL BUF
Total/NA	Prep	9012B			145688	10/17/13 09:45	KJ1	TAL BUF
Total/NA	Analysis	9012B		1	145761	10/17/13 19:57	NCH	TAL BUF

Client Sample ID: Blind Dup

Date Collected: 10/09/13 12:00

Date Received: 10/11/13 12:25

Lab Sample ID: 480-47822-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146167	10/20/13 01:17	NMD1	TAL BUF
Total/NA	Prep	3510C			144942	10/15/13 07:49	MNF	TAL BUF
Total/NA	Analysis	8270D		1	145503	10/17/13 15:46	RMM	TAL BUF
Total/NA	Prep	3510C			144925	10/15/13 06:33	DLE	TAL BUF
Total/NA	Analysis	8082A		1	145203	10/16/13 09:41	JMM	TAL BUF
Total/NA	Prep	8151A			144807	10/14/13 14:59	TRG	TAL BUF
Total/NA	Analysis	8151A		1	145284	10/16/13 12:38	DGB	TAL BUF
Total/NA	Prep	3510C			145223	10/16/13 07:30	DLE	TAL BUF
Total/NA	Analysis	8081B		5	145569	10/17/13 13:59	LMW	TAL BUF
Total/NA	Prep	7470A			144689	10/14/13 09:03	JRK	TAL BUF
Total/NA	Analysis	7470A		1	144822	10/14/13 12:50	JRK	TAL BUF
Total/NA	Analysis	6010C		1	145687	10/17/13 12:06	LMH	TAL BUF
Total/NA	Prep	3005A			144638	10/14/13 08:45	NMD2	TAL BUF
Total/NA	Analysis	6010C		1	146303	10/19/13 10:53	LMH	TAL BUF
Total/NA	Prep	9012B			145688	10/17/13 09:45	KJ1	TAL BUF
Total/NA	Analysis	9012B		1	145761	10/17/13 19:56	NCH	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-2

Lab Sample ID: 480-47822-3

Date Collected: 10/09/13 14:07

Matrix: Water

Date Received: 10/11/13 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146167	10/20/13 01:41	NMD1	TAL BUF
Total/NA	Prep	3510C			144942	10/15/13 07:49	MNF	TAL BUF
Total/NA	Analysis	8270D		1	145503	10/17/13 16:13	RMM	TAL BUF
Total/NA	Prep	3510C			144925	10/15/13 06:33	DLE	TAL BUF
Total/NA	Analysis	8082A		1	145203	10/16/13 09:57	JMM	TAL BUF
Total/NA	Prep	8151A			144807	10/14/13 14:59	TRG	TAL BUF
Total/NA	Analysis	8151A		1	145284	10/16/13 13:08	DGB	TAL BUF
Total/NA	Prep	3510C			145223	10/16/13 07:30	DLE	TAL BUF
Total/NA	Analysis	8081B		5	145569	10/17/13 14:17	LMW	TAL BUF
Total/NA	Prep	7470A			144689	10/14/13 09:03	JRK	TAL BUF
Total/NA	Analysis	7470A		1	144822	10/14/13 12:52	JRK	TAL BUF
Total/NA	Prep	3005A			144638	10/14/13 08:45	NMD2	TAL BUF
Total/NA	Analysis	6010C		1	145687	10/17/13 12:09	LMH	TAL BUF
Total/NA	Analysis	6010C		1	146303	10/19/13 10:56	LMH	TAL BUF
Total/NA	Prep	9012B			145688	10/17/13 09:45	KJ1	TAL BUF
Total/NA	Analysis	9012B		1	145761	10/17/13 19:54	NCH	TAL BUF

Client Sample ID: MW-4

Lab Sample ID: 480-47822-4

Date Collected: 10/10/13 09:28

Matrix: Water

Date Received: 10/11/13 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146088	10/19/13 14:09	HTL	TAL BUF
Total/NA	Prep	3510C			144942	10/15/13 07:49	MNF	TAL BUF
Total/NA	Analysis	8270D		1	145503	10/17/13 16:41	RMM	TAL BUF
Total/NA	Prep	3510C			144925	10/15/13 06:33	DLE	TAL BUF
Total/NA	Analysis	8082A		1	145203	10/16/13 10:45	JMM	TAL BUF
Total/NA	Prep	8151A			144807	10/14/13 14:59	TRG	TAL BUF
Total/NA	Analysis	8151A		1	145284	10/16/13 15:07	DGB	TAL BUF
Total/NA	Prep	3510C			145223	10/16/13 07:30	DLE	TAL BUF
Total/NA	Analysis	8081B		1	145569	10/17/13 14:35	LMW	TAL BUF
Total/NA	Prep	7470A			144689	10/14/13 09:03	JRK	TAL BUF
Total/NA	Analysis	7470A		1	144822	10/14/13 12:59	JRK	TAL BUF
Total/NA	Analysis	6010C		1	145687	10/17/13 12:27	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			145678	10/17/13 14:31	NMD2	TAL BUF
Dissolved	Prep	7470A			145863	10/18/13 08:40	JRK	TAL BUF
Dissolved	Analysis	7470A		1	146012	10/18/13 14:04	SS1	TAL BUF
Total/NA	Prep	3005A			144638	10/14/13 08:45	NMD2	TAL BUF
Total/NA	Analysis	6010C		1	146303	10/19/13 11:07	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			145678	10/17/13 14:31	NMD2	TAL BUF
Dissolved	Prep	3005A			146020	10/18/13 16:20	NMD2	TAL BUF
Dissolved	Analysis	6010C		1	146399	10/19/13 19:14	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			145678	10/17/13 14:31	NMD2	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Client Sample ID: MW-4

Lab Sample ID: 480-47822-4

Date Collected: 10/10/13 09:28

Matrix: Water

Date Received: 10/11/13 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			146020	10/18/13 16:20	NMD2	TAL BUF
Dissolved	Analysis	6010C		1	146878	10/22/13 16:59	LMH	TAL BUF
Total/NA	Prep	9012B			145688	10/17/13 09:45	KJ1	TAL BUF
Total/NA	Analysis	9012B		1	145761	10/17/13 19:53	NCH	TAL BUF

Client Sample ID: Equipment Blank

Lab Sample ID: 480-47822-5

Date Collected: 10/09/13 13:30

Matrix: Water

Date Received: 10/11/13 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146167	10/20/13 02:52	NMD1	TAL BUF
Total/NA	Prep	3510C			144942	10/15/13 07:49	MNF	TAL BUF
Total/NA	Analysis	8270D		1	145503	10/17/13 17:09	RMM	TAL BUF
Total/NA	Prep	3510C			144925	10/15/13 06:33	DLE	TAL BUF
Total/NA	Analysis	8082A		1	145203	10/16/13 11:01	JMM	TAL BUF
Total/NA	Prep	8151A			144807	10/14/13 14:59	TRG	TAL BUF
Total/NA	Analysis	8151A		1	145284	10/16/13 16:36	DGB	TAL BUF
Total/NA	Prep	3510C			145223	10/16/13 09:07	DLE	TAL BUF
Total/NA	Analysis	8081B		1	145569	10/17/13 15:10	LMW	TAL BUF
Total/NA	Prep	7470A			144689	10/14/13 09:03	JRK	TAL BUF
Total/NA	Analysis	7470A		1	144822	10/14/13 13:00	JRK	TAL BUF
Total/NA	Prep	3005A			144638	10/14/13 08:45	NMD2	TAL BUF
Total/NA	Analysis	6010C		1	145687	10/17/13 12:30	LMH	TAL BUF
Total/NA	Analysis	6010C		1	146303	10/19/13 11:10	LMH	TAL BUF
Total/NA	Prep	9012B			145784	10/17/13 20:35	JMB	TAL BUF
Total/NA	Analysis	9012B		1	146030	10/18/13 15:05	KMF	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-47822-6

Date Collected: 10/09/13 00:00

Matrix: Water

Date Received: 10/11/13 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146088	10/19/13 14:56	HTL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	NELAP	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-47822-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-47822-1	MW-1	Water	10/09/13 15:30	10/11/13 12:25
480-47822-2	Blind Dup	Water	10/09/13 12:00	10/11/13 12:25
480-47822-3	MW-2	Water	10/09/13 14:07	10/11/13 12:25
480-47822-4	MW-4	Water	10/10/13 09:28	10/11/13 12:25
480-47822-5	Equipment Blank	Water	10/09/13 13:30	10/11/13 12:25
480-47822-6	Trip Blank	Water	10/09/13 00:00	10/11/13 12:25

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-47822-1

Login Number: 47822

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	benchmark eng
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	Yes: Samples checked, no residual chlorine detected

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client Benchmark Eng			Project Manager Tom Forbes			Date 10/10/13			Chain of Custody Number 251344		
Address 2558 Hamburg Turnpike			Telephone Number (Area Code)/Fax Number (716) 856-0599			Lab Number			Page 1 of 1		

City Lackawanna	State NY	Zip Code 14218	Site Contact T. Behrendt	Lab Contact B. Fischer	Analysis (Attach list if more space is needed)						
Project Name and Location (State) 500 Seneca st			Carrier/Waybill Number								

Contract/Purchase Order/Quote No. 0270-02-001			Matrix				Containers & Preservatives										Special Instructions/ Conditions of Receipt	

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	PCBs	Pest	TCL SVOL 8270	TAL METALS	TCL VOL 8260	Herbicide	T. CN	S. TAL METALS
mw-1	10/9/13	1530	X				X	X	X	X			2	2	2	1	3	2	1	
Blind Dup		1200	X				X	X	X	X			2	2	2	1	3	1	1	
mw-2 (ms/msd)		1407	X				X	X	X	X			6	6	6	3	9	6	1	
mw-4	10/10/13	928	X				X	X	X	X			2	2	2	1	3	2	1	1
Equipment Blank	10/9/13	1330	X				X	X	X	X			2	2	2	1	3	2	1	
Trap Blank			X							X										



480-47822 Chain of Custody

* please Filter
and pass
S. METALS *

* limited volume
on Blind Dup
Herbicide: *

Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	

Turn Around Time Required	QC Requirements (Specify)
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD	CA 13 B. Fischer Unknown

1. Relinquished By [Signature]	Date 10/10/13	Time	1. Received By [Signature]	Date 10/11/13	Time 410
2. Relinquished By [Signature]	Date 10/11/13	Time 1225	2. Received By [Signature]	Date 10/11/13	Time 1225
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

3.6 4.2 3.0 ICF#11

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-55442-1

Client Project/Site: Benchmark - 500 Seneca St.

For:

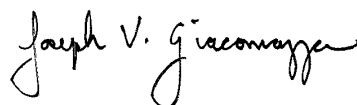
Benchmark Env. Eng. & Science, PLLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Mr. Tom Forbes



Authorized for release by:

3/12/2014 2:49:17 PM

Joe Giacomazza, Project Management Assistant II

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Designee for

Brian Fischer, Manager of Project Management

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brian.fischer@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAP and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Job ID: 480-55442-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-55442-1

Receipt

The samples were received on 3/3/2014 12:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 21.0° C and 21.0° C.

Except:

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): DUP #1 (480-55442-2). The Flow Controller used has an ID # of 3936. The COC lists a Flow Controller ID# of 3963.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): AMBIENT #2 (480-55442-5). The Flow Controller used for sample 5 has a ID # of 3060. The COC lists a Flow Controller # of 3040.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): AMBIENT #3 (480-55442-7), DUP #1 (480-55442-2), OUTSIDE AMBIENT (480-55442-8), SSV-1 (480-55442-1). The container labels do not list the sample end date. Logged in per end date (02/27/14) on COC.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): AMBIENT #3 (480-55442-7), DUP #1 (480-55442-2), OUTSIDE AMBIENT (480-55442-8), SSV-3 (480-55442-6). The container labels do not list a sample time. Logged in per sample end time on COC.

Air Toxics

Method(s) TO15 LL: The continuing calibration verification (CCV) associated with batch <<69375>> recovered above the upper control limit for <<butadiene>>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: AMBIENT #1 (480-55442-3), AMBIENT #2 (480-55442-5), AMBIENT #3 (480-55442-7), OUTSIDE AMBIENT (480-55442-8).

Method(s) TO15 LL: See internal comments

No other analytical or quality issues were noted.

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Client Sample ID: SSV-1

Lab Sample ID: 480-55442-1

Date Collected: 02/27/14 10:08

Matrix: Air

Date Received: 03/03/14 12:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
1,1,2,2-Tetrachloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
1,1,2-Trichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
1,1-Dichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
1,1-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
1,2-Dibromoethane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
1,2-Dichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
1,2-Dichloroethene, Total	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
1,2-Dichloropropane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
1,2-Dichlorotetrafluoroethane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
1,3,5-Trimethylbenzene	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
1,3-Butadiene	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
2,2,4-Trimethylpentane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
3-Chloropropene	0.50		0.50	0.50	ppb v/v			03/11/14 13:37	1
4-Ethyltoluene	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Benzene	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Bromodichloromethane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Bromoethene(Vinyl Bromide)	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Bromoform	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Bromomethane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Carbon tetrachloride	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Chloroethane	0.50		0.50	0.50	ppb v/v			03/11/14 13:37	1
Chloroform	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
cis-1,2-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
cis-1,3-Dichloropropene	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Cyclohexane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Dibromochloromethane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Dichlorodifluoromethane	0.50		0.50	0.50	ppb v/v			03/11/14 13:37	1
Ethylbenzene	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
m,p-Xylene	0.50		0.50	0.50	ppb v/v			03/11/14 13:37	1
Methyl tert-butyl ether	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Methylene Chloride	0.50		0.50	0.50	ppb v/v			03/11/14 13:37	1
n-Heptane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
n-Hexane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Tetrachloroethene	0.62		0.20	0.20	ppb v/v			03/11/14 13:37	1
Toluene	0.24		0.20	0.20	ppb v/v			03/11/14 13:37	1
trans-1,2-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
trans-1,3-Dichloropropene	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Trichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Trichlorofluoromethane	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Vinyl chloride	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Xylene (total)	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1
Xylene, o-	0.20		0.20	0.20	ppb v/v			03/11/14 13:37	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Client Sample ID: DUP #1

Lab Sample ID: 480-55442-2

Date Collected: 02/27/14 10:10

Matrix: Air

Date Received: 03/03/14 12:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
1,1,1,2,2-Tetrachloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
1,1,2-Trichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
1,1-Dichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
1,1-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
1,2-Dibromoethane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
1,2-Dichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
1,2-Dichloroethene, Total	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
1,2-Dichloropropane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
1,2-Dichlorotetrafluoroethane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
1,3,5-Trimethylbenzene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
1,3-Butadiene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
2,2,4-Trimethylpentane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
3-Chloropropene	0.50		0.50	0.50	ppb v/v			03/11/14 14:24	1
4-Ethyltoluene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Benzene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Bromodichloromethane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Bromoethene(Vinyl Bromide)	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Bromoform	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Bromomethane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Carbon tetrachloride	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Chloroethane	0.50		0.50	0.50	ppb v/v			03/11/14 14:24	1
Chloroform	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
cis-1,2-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
cis-1,3-Dichloropropene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Cyclohexane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Dibromochloromethane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Dichlorodifluoromethane	0.50		0.50	0.50	ppb v/v			03/11/14 14:24	1
Ethylbenzene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
m,p-Xylene	0.50		0.50	0.50	ppb v/v			03/11/14 14:24	1
Methyl tert-butyl ether	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Methylene Chloride	0.50		0.50	0.50	ppb v/v			03/11/14 14:24	1
n-Heptane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
n-Hexane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Tetrachloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Toluene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
trans-1,2-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
trans-1,3-Dichloropropene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Trichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Trichlorofluoromethane	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Vinyl chloride	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Xylene (total)	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1
Xylene, o-	0.20		0.20	0.20	ppb v/v			03/11/14 14:24	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Client Sample ID: AMBIENT #1

Lab Sample ID: 480-55442-3

Date Collected: 02/27/14 10:07

Matrix: Air

Date Received: 03/03/14 12:45

Sample Container: Summa Canister 6L

Method: TO15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
1,1,1,2,2-Tetrachloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
1,1,2-Trichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
1,1-Dichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
1,1-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
1,2-Dibromoethane	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
1,2-Dichloroethane	0.080		0.080	0.080	ppb v/v			03/11/14 18:59	4
1,2-Dichloroethene, Total	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
1,2-Dichloropropane	0.080		0.080	0.080	ppb v/v			03/11/14 18:59	4
1,2-Dichlorotetrafluoroethane	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
1,3,5-Trimethylbenzene	0.080		0.080	0.080	ppb v/v			03/11/14 18:59	4
1,3-Butadiene	0.080		0.080	0.080	ppb v/v			03/11/14 18:59	4
2,2,4-Trimethylpentane	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
3-Chloropropene	0.080		0.080	0.080	ppb v/v			03/11/14 18:59	4
4-Ethyltoluene	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Benzene	0.15		0.040	0.040	ppb v/v			03/11/14 18:59	4
Bromodichloromethane	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Bromoethene(Vinyl Bromide)	0.080		0.080	0.080	ppb v/v			03/11/14 18:59	4
Bromoform	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Bromomethane	0.080		0.080	0.080	ppb v/v			03/11/14 18:59	4
Carbon tetrachloride	0.050		0.040	0.040	ppb v/v			03/11/14 18:59	4
Chloroethane	0.080		0.080	0.080	ppb v/v			03/11/14 18:59	4
Chloroform	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
cis-1,2-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
cis-1,3-Dichloropropene	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Cyclohexane	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Dibromochloromethane	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Dichlorodifluoromethane	0.48		0.040	0.040	ppb v/v			03/11/14 18:59	4
Ethylbenzene	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Methyl tert-butyl ether	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Methylene Chloride	0.40	*	0.40	0.40	ppb v/v			03/11/14 18:59	4
m-Xylene & p-Xylene	0.080		0.080	0.080	ppb v/v			03/11/14 18:59	4
n-Heptane	0.041		0.040	0.040	ppb v/v			03/11/14 18:59	4
n-Hexane	0.095		0.080	0.080	ppb v/v			03/11/14 18:59	4
o-Xylene	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Tetrachloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Toluene	0.13		0.040	0.040	ppb v/v			03/11/14 18:59	4
trans-1,2-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
trans-1,3-Dichloropropene	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Trichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 18:59	4
Trichlorofluoromethane	0.19		0.040	0.040	ppb v/v			03/11/14 18:59	4
Vinyl chloride	0.080		0.080	0.080	ppb v/v			03/11/14 18:59	4
Xylenes, Total	0.055		0.040	0.040	ppb v/v			03/11/14 18:59	4

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Client Sample ID: SSV-2

Lab Sample ID: 480-55442-4

Date Collected: 02/27/14 10:14

Matrix: Air

Date Received: 03/03/14 12:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
1,1,2,2-Tetrachloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
1,1,2-Trichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
1,1-Dichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
1,1-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
1,2-Dibromoethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
1,2-Dichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
1,2-Dichloroethene, Total	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
1,2-Dichloropropane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
1,2-Dichlorotetrafluoroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
1,3,5-Trimethylbenzene	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
1,3-Butadiene	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
2,2,4-Trimethylpentane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
3-Chloropropene	0.50		0.50	0.50	ppb v/v			03/11/14 15:11	1
4-Ethyltoluene	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Benzene	0.27		0.20	0.20	ppb v/v			03/11/14 15:11	1
Bromodichloromethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Bromoethene(Vinyl Bromide)	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Bromoform	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Bromomethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Carbon tetrachloride	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Chloroethane	0.50		0.50	0.50	ppb v/v			03/11/14 15:11	1
Chloroform	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
cis-1,2-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
cis-1,3-Dichloropropene	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Cyclohexane	1.14		0.20	0.20	ppb v/v			03/11/14 15:11	1
Dibromochloromethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Dichlorodifluoromethane	0.50		0.50	0.50	ppb v/v			03/11/14 15:11	1
Ethylbenzene	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
m,p-Xylene	0.50		0.50	0.50	ppb v/v			03/11/14 15:11	1
Methyl tert-butyl ether	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Methylene Chloride	0.50		0.50	0.50	ppb v/v			03/11/14 15:11	1
n-Heptane	1.07		0.20	0.20	ppb v/v			03/11/14 15:11	1
n-Hexane	1.32		0.20	0.20	ppb v/v			03/11/14 15:11	1
Tetrachloroethene	0.23		0.20	0.20	ppb v/v			03/11/14 15:11	1
Toluene	0.92		0.20	0.20	ppb v/v			03/11/14 15:11	1
trans-1,2-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
trans-1,3-Dichloropropene	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Trichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Trichlorofluoromethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Vinyl chloride	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Xylene (total)	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1
Xylene, o-	0.20		0.20	0.20	ppb v/v			03/11/14 15:11	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Client Sample ID: AMBIENT #2

Lab Sample ID: 480-55442-5

Date Collected: 02/27/14 10:12

Matrix: Air

Date Received: 03/03/14 12:45

Sample Container: Summa Canister 6L

Method: TO15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
1,1,1,2,2-Tetrachloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
1,1,2-Trichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
1,1-Dichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
1,1-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
1,2-Dibromoethane	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
1,2-Dichloroethane	0.080		0.080	0.080	ppb v/v			03/11/14 19:53	4
1,2-Dichloroethene, Total	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
1,2-Dichloropropane	0.080		0.080	0.080	ppb v/v			03/11/14 19:53	4
1,2-Dichlorotetrafluoroethane	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
1,3,5-Trimethylbenzene	0.080		0.080	0.080	ppb v/v			03/11/14 19:53	4
1,3-Butadiene	0.080		0.080	0.080	ppb v/v			03/11/14 19:53	4
2,2,4-Trimethylpentane	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
3-Chloropropene	0.080		0.080	0.080	ppb v/v			03/11/14 19:53	4
4-Ethyltoluene	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
Benzene	0.15		0.040	0.040	ppb v/v			03/11/14 19:53	4
Bromodichloromethane	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
Bromoethene(Vinyl Bromide)	0.080		0.080	0.080	ppb v/v			03/11/14 19:53	4
Bromoform	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
Bromomethane	0.080		0.080	0.080	ppb v/v			03/11/14 19:53	4
Carbon tetrachloride	0.061		0.040	0.040	ppb v/v			03/11/14 19:53	4
Chloroethane	0.080		0.080	0.080	ppb v/v			03/11/14 19:53	4
Chloroform	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
cis-1,2-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
cis-1,3-Dichloropropene	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
Cyclohexane	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
Dibromochloromethane	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
Dichlorodifluoromethane	0.52		0.040	0.040	ppb v/v			03/11/14 19:53	4
Ethylbenzene	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
Methyl tert-butyl ether	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
Methylene Chloride	0.40	*	0.40	0.40	ppb v/v			03/11/14 19:53	4
m-Xylene & p-Xylene	0.080		0.080	0.080	ppb v/v			03/11/14 19:53	4
n-Heptane	0.041		0.040	0.040	ppb v/v			03/11/14 19:53	4
n-Hexane	0.082		0.080	0.080	ppb v/v			03/11/14 19:53	4
o-Xylene	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
Tetrachloroethene	0.069		0.040	0.040	ppb v/v			03/11/14 19:53	4
Toluene	0.18		0.040	0.040	ppb v/v			03/11/14 19:53	4
trans-1,2-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
trans-1,3-Dichloropropene	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
Trichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 19:53	4
Trichlorofluoromethane	0.22		0.040	0.040	ppb v/v			03/11/14 19:53	4
Vinyl chloride	0.080		0.080	0.080	ppb v/v			03/11/14 19:53	4
Xylenes, Total	0.043		0.040	0.040	ppb v/v			03/11/14 19:53	4

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Client Sample ID: SSV-3

Lab Sample ID: 480-55442-6

Date Collected: 02/27/14 10:17

Matrix: Air

Date Received: 03/03/14 12:45

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
1,1,2,2-Tetrachloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
1,1,2-Trichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
1,1-Dichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
1,1-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
1,2-Dibromoethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
1,2-Dichloroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
1,2-Dichloroethene, Total	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
1,2-Dichloropropane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
1,2-Dichlorotetrafluoroethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
1,3,5-Trimethylbenzene	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
1,3-Butadiene	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
2,2,4-Trimethylpentane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
3-Chloropropene	0.50		0.50	0.50	ppb v/v			03/11/14 15:58	1
4-Ethyltoluene	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Benzene	0.33		0.20	0.20	ppb v/v			03/11/14 15:58	1
Bromodichloromethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Bromoethene(Vinyl Bromide)	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Bromoform	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Bromomethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Carbon tetrachloride	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Chloroethane	0.50		0.50	0.50	ppb v/v			03/11/14 15:58	1
Chloroform	0.37		0.20	0.20	ppb v/v			03/11/14 15:58	1
cis-1,2-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
cis-1,3-Dichloropropene	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Cyclohexane	1.85		0.20	0.20	ppb v/v			03/11/14 15:58	1
Dibromochloromethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Dichlorodifluoromethane	0.50		0.50	0.50	ppb v/v			03/11/14 15:58	1
Ethylbenzene	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
m,p-Xylene	0.50		0.50	0.50	ppb v/v			03/11/14 15:58	1
Methyl tert-butyl ether	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Methylene Chloride	0.50		0.50	0.50	ppb v/v			03/11/14 15:58	1
n-Heptane	0.91		0.20	0.20	ppb v/v			03/11/14 15:58	1
n-Hexane	1.66		0.20	0.20	ppb v/v			03/11/14 15:58	1
Tetrachloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Toluene	0.26		0.20	0.20	ppb v/v			03/11/14 15:58	1
trans-1,2-Dichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
trans-1,3-Dichloropropene	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Trichloroethene	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Trichlorofluoromethane	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Vinyl chloride	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Xylene (total)	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1
Xylene, o-	0.20		0.20	0.20	ppb v/v			03/11/14 15:58	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Client Sample ID: AMBIENT #3

Lab Sample ID: 480-55442-7

Date Collected: 02/27/14 10:19

Matrix: Air

Date Received: 03/03/14 12:45

Sample Container: Summa Canister 6L

Method: TO15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
1,1,1,2,2-Tetrachloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
1,1,2-Trichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
1,1-Dichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
1,1-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
1,2-Dibromoethane	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
1,2-Dichloroethane	0.080		0.080	0.080	ppb v/v			03/11/14 20:48	4
1,2-Dichloroethene, Total	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
1,2-Dichloropropane	0.080		0.080	0.080	ppb v/v			03/11/14 20:48	4
1,2-Dichlorotetrafluoroethane	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
1,3,5-Trimethylbenzene	0.080		0.080	0.080	ppb v/v			03/11/14 20:48	4
1,3-Butadiene	0.080		0.080	0.080	ppb v/v			03/11/14 20:48	4
2,2,4-Trimethylpentane	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
3-Chloropropene	0.080		0.080	0.080	ppb v/v			03/11/14 20:48	4
4-Ethyltoluene	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
Benzene	0.16		0.040	0.040	ppb v/v			03/11/14 20:48	4
Bromodichloromethane	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
Bromoethene(Vinyl Bromide)	0.080		0.080	0.080	ppb v/v			03/11/14 20:48	4
Bromoform	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
Bromomethane	0.080		0.080	0.080	ppb v/v			03/11/14 20:48	4
Carbon tetrachloride	0.062		0.040	0.040	ppb v/v			03/11/14 20:48	4
Chloroethane	0.080		0.080	0.080	ppb v/v			03/11/14 20:48	4
Chloroform	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
cis-1,2-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
cis-1,3-Dichloropropene	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
Cyclohexane	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
Dibromochloromethane	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
Dichlorodifluoromethane	0.56		0.040	0.040	ppb v/v			03/11/14 20:48	4
Ethylbenzene	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
Methyl tert-butyl ether	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
Methylene Chloride	0.40	*	0.40	0.40	ppb v/v			03/11/14 20:48	4
m-Xylene & p-Xylene	0.080		0.080	0.080	ppb v/v			03/11/14 20:48	4
n-Heptane	0.042		0.040	0.040	ppb v/v			03/11/14 20:48	4
n-Hexane	0.089		0.080	0.080	ppb v/v			03/11/14 20:48	4
o-Xylene	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
Tetrachloroethene	0.061		0.040	0.040	ppb v/v			03/11/14 20:48	4
Toluene	0.11		0.040	0.040	ppb v/v			03/11/14 20:48	4
trans-1,2-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
trans-1,3-Dichloropropene	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
Trichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 20:48	4
Trichlorofluoromethane	0.23		0.040	0.040	ppb v/v			03/11/14 20:48	4
Vinyl chloride	0.080		0.080	0.080	ppb v/v			03/11/14 20:48	4
Xylenes, Total	0.057		0.040	0.040	ppb v/v			03/11/14 20:48	4

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Client Sample ID: OUTSIDE AMBIENT

Lab Sample ID: 480-55442-8

Date Collected: 02/27/14 09:55

Matrix: Air

Date Received: 03/03/14 12:45

Sample Container: Summa Canister 6L

Method: TO15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
1,1,2,2-Tetrachloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
1,1,2-Trichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
1,1-Dichloroethane	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
1,1-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
1,2-Dibromoethane	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
1,2-Dichloroethane	0.080		0.080	0.080	ppb v/v			03/11/14 21:43	4
1,2-Dichloroethene, Total	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
1,2-Dichloropropane	0.080		0.080	0.080	ppb v/v			03/11/14 21:43	4
1,2-Dichlorotetrafluoroethane	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
1,3,5-Trimethylbenzene	0.080		0.080	0.080	ppb v/v			03/11/14 21:43	4
1,3-Butadiene	0.080		0.080	0.080	ppb v/v			03/11/14 21:43	4
2,2,4-Trimethylpentane	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
3-Chloropropene	0.080		0.080	0.080	ppb v/v			03/11/14 21:43	4
4-Ethyltoluene	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Benzene	0.16		0.040	0.040	ppb v/v			03/11/14 21:43	4
Bromodichloromethane	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Bromoethene(Vinyl Bromide)	0.080		0.080	0.080	ppb v/v			03/11/14 21:43	4
Bromoform	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Bromomethane	0.080		0.080	0.080	ppb v/v			03/11/14 21:43	4
Carbon tetrachloride	0.066		0.040	0.040	ppb v/v			03/11/14 21:43	4
Chloroethane	0.080		0.080	0.080	ppb v/v			03/11/14 21:43	4
Chloroform	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
cis-1,2-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
cis-1,3-Dichloropropene	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Cyclohexane	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Dibromochloromethane	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Dichlorodifluoromethane	0.51		0.040	0.040	ppb v/v			03/11/14 21:43	4
Ethylbenzene	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Methyl tert-butyl ether	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Methylene Chloride	0.40 *		0.40	0.40	ppb v/v			03/11/14 21:43	4
m-Xylene & p-Xylene	0.080		0.080	0.080	ppb v/v			03/11/14 21:43	4
n-Heptane	0.047		0.040	0.040	ppb v/v			03/11/14 21:43	4
n-Hexane	0.086		0.080	0.080	ppb v/v			03/11/14 21:43	4
o-Xylene	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Tetrachloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Toluene	0.093		0.040	0.040	ppb v/v			03/11/14 21:43	4
trans-1,2-Dichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
trans-1,3-Dichloropropene	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Trichloroethene	0.040		0.040	0.040	ppb v/v			03/11/14 21:43	4
Trichlorofluoromethane	0.22		0.040	0.040	ppb v/v			03/11/14 21:43	4
Vinyl chloride	0.080		0.080	0.080	ppb v/v			03/11/14 21:43	4
Xylenes, Total	0.055		0.040	0.040	ppb v/v			03/11/14 21:43	4

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Client Sample ID: SSV-1

Date Collected: 02/27/14 10:08

Date Received: 03/03/14 12:45

Lab Sample ID: 480-55442-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	69384	03/11/14 13:37	BPL	TAL BUR

Client Sample ID: DUP #1

Date Collected: 02/27/14 10:10

Date Received: 03/03/14 12:45

Lab Sample ID: 480-55442-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	69384	03/11/14 14:24	BPL	TAL BUR

Client Sample ID: AMBIENT #1

Date Collected: 02/27/14 10:07

Date Received: 03/03/14 12:45

Lab Sample ID: 480-55442-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO15 LL		4	69375	03/11/14 18:59	WRD	TAL BUR

Client Sample ID: SSV-2

Date Collected: 02/27/14 10:14

Date Received: 03/03/14 12:45

Lab Sample ID: 480-55442-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	69384	03/11/14 15:11	BPL	TAL BUR

Client Sample ID: AMBIENT #2

Date Collected: 02/27/14 10:12

Date Received: 03/03/14 12:45

Lab Sample ID: 480-55442-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO15 LL		4	69375	03/11/14 19:53	WRD	TAL BUR

Client Sample ID: SSV-3

Date Collected: 02/27/14 10:17

Date Received: 03/03/14 12:45

Lab Sample ID: 480-55442-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	69384	03/11/14 15:58	BPL	TAL BUR

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Client Sample ID: AMBIENT #3

Date Collected: 02/27/14 10:19

Date Received: 03/03/14 12:45

Lab Sample ID: 480-55442-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO15 LL		4	69375	03/11/14 20:48	WRD	TAL BUR

Client Sample ID: OUTSIDE AMBIENT

Date Collected: 02/27/14 09:55

Date Received: 03/03/14 12:45

Lab Sample ID: 480-55442-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO15 LL		4	69375	03/11/14 21:43	WRD	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	NELAP	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14 *
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14 *
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14 *
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14 *
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-14 *
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	04-01-14 *
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
West Virginia DEP	State Program	3	252	03-31-14 *
Wisconsin	State Program	5	998310390	08-31-14

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	02-26-17
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-14
New Hampshire	NELAP	1	2006	12-18-14
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14 *
Pennsylvania	NELAP	3	68-00489	04-30-14 *
Rhode Island	State Program	1	LAO00298	12-30-14
US Fish & Wildlife	Federal		LE-058448-0	02-28-14 *
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Virginia	NELAP	3	460209	12-14-14

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR
TO15 LL	Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55442-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-55442-1	SSV-1	Air	02/27/14 10:08	03/03/14 12:45
480-55442-2	DUP #1	Air	02/27/14 10:10	03/03/14 12:45
480-55442-3	AMBIENT #1	Air	02/27/14 10:07	03/03/14 12:45
480-55442-4	SSV-2	Air	02/27/14 10:14	03/03/14 12:45
480-55442-5	AMBIENT #2	Air	02/27/14 10:12	03/03/14 12:45
480-55442-6	SSV-3	Air	02/27/14 10:17	03/03/14 12:45
480-55442-7	AMBIENT #3	Air	02/27/14 10:19	03/03/14 12:45
480-55442-8	OUTSIDE AMBIENT	Air	02/27/14 09:55	03/03/14 12:45

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-55442-1

Login Number: 55442

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BMTK
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-55442-1

Login Number: 55442

List Source: TestAmerica Burlington

List Number: 201

List Creation: 03/04/14 04:01 PM

Creator: Gagne, Eric M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	154247 & 248
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica Burlington

30 Community Drive

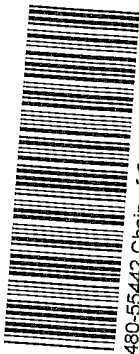
Suite 11

South Burlington, VT 05403

phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these



480-55442 Chain of Custody

Client Contact Information		Project Manager: Mike Huxley		Samples Collected By: TATB		1 of 2 COCs	
Company: Benchmark Engineering		Phone: (761) 856-0596		EPA 25C		ASTM D-1946	
Address: 255 S. Huntington Turnpike		Email: TBelmont@BenchmarkEng.com		EPA 3C		Other (Please specify in notes section)	
City/State/Zip		Site Contact: Tom Belmont		MA-APH		Sample Type	
Phone:		TA Contact: Brian Fischer		TO-15		Indoor Air	
FAX:		Analysis Turnaround Time				Ambient Air	
Project Name: 500 Service St		Standard (Specify) X				Soil Gas	
Site: 500 Service St		Rush (Specify)				Landfill Gas	
PO # 0170-D12-001						Other (Please specify in notes section)	

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	Temperature (Fahrenheit)		Other (Please specify in notes section)
								Interior	Ambient	
SSV-1	2/24/14	2:33	10:08	-30	-12	3943	3290			X
Dup #1	2/24/14	2:36	10:10	-30	-11	3963	3759			X
Ambient #1		2:33	10:07	-30	-10	4763	5087			X
SSV-2		2:28	10:14	-30	-3	3742	3477			X
Ambient #2		2:31	10:12	-29	-11	3040	4542			X
SSV-3		2:26	10:17	-30	-12	4104	4261			X

Pressure (inches of Hg)	
Interior	Ambient

Special Instructions/QC Requirements & Comments:	
Custody B	

Samples Shipped by: [Signature]	Date/Time: 2/25/14 3/3/14 @ 1030	Samples Received by: [Signature]	Date/Time: 3/3/14 @ 1245
Samples Relinquished by: [Signature]	Date/Time: 3/3/14 @ 1245	Received by: [Signature]	Date/Time: 3/3/14 1245

Lab Use Only

Shipper Name:

Opened by:

Condition:

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information Company: <u>Benchmark Engineering</u> Address: <u>2558 Hamby Turnpike</u> City/State/Zip: <u>Wilmington VT 05398</u> Phone: <u>(816) 856-0599</u> FAX: <u>(816) 856-0583</u> Project Name: <u>500 Screen St</u> Site: <u>500 Screen St</u> PO # <u>0270-C12-001</u>		Project Manager: <u>Nate Munkey</u> Phone: <u>(216) 856-0554</u> Email: <u>T.Behndt@Tunkey.com</u> Site Contact: <u>Toni Behndt</u> TA Contact: <u>Brian Fischer</u>		Samples Collected By: Z of 2 COCs														
Analysis Turnaround Time Standard (Specify) Rush (Specify)		EPA 25C EPA 3C MA-APH TO-15 ASTM D-1946 Other (Please specify in notes section) Sample Type Indoor Air Ambient Air Soil Gas Landfill Gas Other (Please specify in notes section)																
Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	EPA 25C	EPA 3C	MA-APH	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
4/16/2012	227	1019	-28	-9	2668	2615	X							X				
+	251	955	-30	-10	4761	3788	X											
Temperature (Fahrenheit) Interior Ambient Start Stop																		
Pressure (inches of Hg) Interior Ambient Start Stop																		
Special Instructions/QC Requirements & Comments: Cuxingway B																		
Samples Shipped by: <u>[Signature]</u> Samples Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u>		Date/Time: <u>2/28/14 / 3/3/14 @ 1000</u> Date/Time: <u>3/3/14 @ 1245</u> Date/Time:		Samples Received by: <u>[Signature]</u> Received by: <u>[Signature]</u> Received by:														

Lab Use Only: Shipper Name: Condition: Opened by:

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-55676-1

Client Project/Site: Benchmark - 500 Seneca St.

Revision: 1

For:

Benchmark Env. Eng. & Science, PLLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Mr. Nate Munley



Authorized for release by:

3/19/2014 11:07:29 AM

Brian Fischer, Manager of Project Management

(716)504-9835

brian.fischer@testamericainc.com

LINKS

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results through

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Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Job ID: 480-55676-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-55676-1

Comments

Level 1 report revised to adjust compound list.

Receipt

The samples were received on 3/7/2014 11:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

GC/MS VOA

Method(s) 8260C: The method blank for batch 169249 contained Acrylonitrile and/or Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The following sample was analyzed using medium level soil techniques to bring the concentration of target analytes within the calibration range: SB-5 (4-6) (480-55676-5). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix : SS-1 (480-55676-10), SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD). As such, surrogate and spike recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) for analytical batch 169629 recovered outside control limits for multiple analytes. These analytes were within acceptable limits in the low level calibration verification (CCVL), therefore the data have been qualified and reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 169629 recovered above the upper control limit for Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-169629/4).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 169510 recovered outside control limits for two analytes. Four analytes are allowed outside limits when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: SS-3 (480-55676-13). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: HC-6 (0.3-2.0) (480-55676-18). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-6 (5-7) (480-55676-6). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) for analytical batch 169690 recovered outside control limits for multiple analytes. These analytes were within acceptable limits in the low level calibration verification (CCVL), therefore the data have been qualified and reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 169690 recovered above the upper control limit for Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-169690/4).

No other analytical or quality issues were noted.

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Job ID: 480-55676-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

GC Semi VOA

Method(s) 8082A: Surrogate recovery for the following samples was outside control limits: SS-3 (480-55676-13). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

Method(s) 8082A: All primary data is reported from the ZB-35 column.

Method(s) 8082A: The following sample(s) was diluted due to the abundance of non-target analytes: SB-8 (6-8) (480-55676-8), SS-1 (480-55676-10), SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals

Method(s) 7471B: The following samples were diluted to bring the concentration of the target analyte total mercury within the calibration range: HC-5 (0.4-1.7) (480-55676-17), HC-6 (0.3-2.0) (480-55676-18), SB-3 (2-4) (480-55676-3). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep

Method(s) 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: SS-1 (480-55676-10), SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD).

Method(s) 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: Blind Dup #1 (480-55676-12), SB-6 (5-7) (480-55676-6), SB-7 (2-4) (480-55676-7), SB-8 (6-8) (480-55676-8), SS-1 (480-55676-10), SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD), SS-2 (480-55676-11), SS-3 (480-55676-13).

Method(s) 3550C: The following samples: SB-4 (0.5-4.0) (480-55676-4) was decanted prior to preparation.

Method(s) 8151A: The following samples: SS-1 (480-55676-10), SS-2 (480-55676-11) was decanted prior to preparation.

Method(s) 8151A: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD).

No other analytical or quality issues were noted.

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-1 (2-4)

Lab Sample ID: 480-55676-1

Date Collected: 03/06/14 10:31

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		17	1.3	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,1,2,2-Tetrachloroethane	ND		17	2.8	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		17	3.9	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,1,2-Trichloroethane	ND		17	2.3	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,1-Dichloroethane	ND		17	2.1	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,1-Dichloroethene	ND		17	2.1	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,2,4-Trichlorobenzene	ND		17	1.1	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,2,4-Trimethylbenzene	ND		17	3.3	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,2-Dibromo-3-Chloropropane	ND		17	8.7	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,2-Dibromoethane	ND		17	2.2	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,2-Dichlorobenzene	ND		17	1.4	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,2-Dichloroethane	ND		17	0.87	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,2-Dichloropropane	ND		17	8.7	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,3,5-Trimethylbenzene	ND		17	1.1	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,3-Dichlorobenzene	ND		17	0.89	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
1,4-Dichlorobenzene	ND		17	2.4	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
2-Butanone (MEK)	ND		87	6.3	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
2-Hexanone	ND		87	8.7	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
4-Isopropyltoluene	ND		17	1.4	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
4-Methyl-2-pentanone (MIBK)	ND		87	5.7	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Acetone	37	J	87	15	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Benzene	ND		17	0.85	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Bromodichloromethane	ND		17	2.3	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Bromoform	ND		17	8.7	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Bromomethane	ND		17	1.6	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Carbon disulfide	ND		17	8.7	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Carbon tetrachloride	ND		17	1.7	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Chlorobenzene	ND		17	2.3	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Chloroethane	ND		17	3.9	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Chloroform	ND		17	1.1	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Chloromethane	ND		17	1.0	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
cis-1,2-Dichloroethene	ND		17	2.2	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
cis-1,3-Dichloropropene	ND		17	2.5	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Cyclohexane	ND		17	2.4	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Dibromochloromethane	ND		17	2.2	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Dichlorodifluoromethane	ND		17	1.4	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Ethylbenzene	ND		17	1.2	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Isopropylbenzene	ND		17	2.6	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
m,p-Xylene	2.9	J	35	2.9	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Methyl acetate	ND		17	3.2	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Methyl tert-butyl ether	ND		17	1.7	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Methylcyclohexane	ND		17	2.6	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Methylene Chloride	ND		17	8.0	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
n-Butylbenzene	ND		17	1.5	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
N-Propylbenzene	ND		17	1.4	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
o-Xylene	ND		17	2.3	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
sec-Butylbenzene	ND		17	1.5	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Styrene	ND		17	0.87	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
tert-Butylbenzene	ND		17	1.8	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-1 (2-4)

Lab Sample ID: 480-55676-1

Date Collected: 03/06/14 10:31

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		17	2.3	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Toluene	2.2	J	17	1.3	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
trans-1,2-Dichloroethene	ND		17	1.8	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
trans-1,3-Dichloropropene	ND		17	7.6	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Trichloroethene	ND		17	3.8	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Trichlorofluoromethane	ND		17	1.6	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Vinyl chloride	ND		17	2.1	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1
Xylenes, Total	2.9	J	35	2.9	ug/Kg	☼	03/07/14 19:43	03/10/14 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	03/07/14 19:43	03/10/14 03:34	1
4-Bromofluorobenzene (Surr)	97		72 - 126	03/07/14 19:43	03/10/14 03:34	1
Toluene-d8 (Surr)	97		71 - 125	03/07/14 19:43	03/10/14 03:34	1
Dibromofluoromethane (Surr)	100		60 - 140	03/07/14 19:43	03/10/14 03:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		170	26	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
2,6-Dinitrotoluene	ND		170	42	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
2-Chloronaphthalene	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
2-Methylnaphthalene	14	J	170	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
2-Nitroaniline	ND		330	55	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
3-Nitroaniline	ND		330	39	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
4-Bromophenyl phenyl ether	ND		170	54	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
4-Chloroaniline	ND		170	50	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
4-Nitroaniline	ND		330	19	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Acenaphthene	6.8	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Acenaphthylene	8.4	J	170	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Acetophenone	ND		170	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Anthracene	19	J	170	4.4	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Atrazine	ND		170	7.6	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Benzaldehyde	62	J	170	19	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Benzo(a)anthracene	ND		170	2.9	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Benzo(a)pyrene	55	J	170	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Benzo(b)fluoranthene	75	J	170	3.3	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Benzo(g,h,i)perylene	30	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Benzo(k)fluoranthene	30	J	170	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Biphenyl	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Bis(2-chloroethoxy)methane	ND		170	9.2	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Bis(2-ethylhexyl) phthalate	ND		170	55	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Butyl benzyl phthalate	ND *		170	46	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Caprolactam	ND		170	74	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Carbazole	ND		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Chrysene	63	J	170	1.7	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Dibenzofuran	8.2	J	170	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-1 (2-4)

Lab Sample ID: 480-55676-1

Date Collected: 03/06/14 10:31

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		170	5.1	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Dimethyl phthalate	ND		170	4.4	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Di-n-butyl phthalate	ND		170	59	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Di-n-octyl phthalate	ND		170	4.0	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Fluoranthene	79	J	170	2.5	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Fluorene	7.1	J	170	3.9	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Hexachlorobenzene	ND		170	8.4	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Hexachlorobutadiene	ND		170	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Hexachlorocyclopentadiene	ND		170	51	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Hexachloroethane	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Indeno(1,2,3-cd)pyrene	ND		170	4.7	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Isophorone	ND		170	8.5	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Naphthalene	16	J	170	2.8	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Nitrobenzene	ND		170	7.5	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
N-Nitrosodi-n-propylamine	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
N-Nitrosodiphenylamine	ND		170	9.3	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Phenanthrene	80	J	170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1
Pyrene	110	J	170	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		39 - 146	03/11/14 08:22	03/12/14 00:52	1
2-Fluorobiphenyl	86		37 - 120	03/11/14 08:22	03/12/14 00:52	1
2-Fluorophenol	73		18 - 120	03/11/14 08:22	03/12/14 00:52	1
Nitrobenzene-d5	91		34 - 132	03/11/14 08:22	03/12/14 00:52	1
Phenol-d5	78		11 - 120	03/11/14 08:22	03/12/14 00:52	1
p-Terphenyl-d14	127		65 - 153	03/11/14 08:22	03/12/14 00:52	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 16:21	1
PCB-1221	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 16:21	1
PCB-1232	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 16:21	1
PCB-1242	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 16:21	1
PCB-1248	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 16:21	1
PCB-1254	ND		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 16:21	1
PCB-1260	ND		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	111		47 - 176	03/10/14 14:51	03/11/14 16:21	1
DCB Decachlorobiphenyl	105		47 - 176	03/10/14 14:51	03/11/14 16:21	1
Tetrachloro-m-xylene	102		46 - 175	03/10/14 14:51	03/11/14 16:21	1
Tetrachloro-m-xylene	109		46 - 175	03/10/14 14:51	03/11/14 16:21	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10100		10.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Antimony	ND		15.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Arsenic	8.1		2.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Barium	129		0.50		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Beryllium	0.57		0.20		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-1 (2-4)

Lab Sample ID: 480-55676-1

Date Collected: 03/06/14 10:31

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.38		0.20		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Calcium	8770		50.4		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Chromium	13.8		0.50		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Cobalt	7.1		0.50		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Copper	40.5		1.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Iron	13600		10.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Lead	192		1.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Magnesium	4760		20.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Manganese	251		0.20		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Nickel	16.3		5.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Potassium	1400		30.3		mg/Kg	☼	03/13/14 11:00	03/14/14 16:06	1
Selenium	ND		4.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Silver	ND		0.61		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Sodium	405		141		mg/Kg	☼	03/13/14 11:00	03/14/14 16:06	1
Thallium	ND		6.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Vanadium	20.9		0.50		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1
Zinc	290		2.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:39	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.020		mg/Kg	☼	03/10/14 07:30	03/10/14 12:42	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-2 (4-6)

Lab Sample ID: 480-55676-2

Date Collected: 03/06/14 09:57

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		4.5	0.86	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
1,3,5-Trimethylbenzene	ND		4.5	0.29	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
4-Isopropyltoluene	ND		4.5	0.36	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
Benzene	ND		4.5	0.22	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
Ethylbenzene	ND		4.5	0.31	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
Isopropylbenzene	ND		4.5	0.68	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
Methyl tert-butyl ether	ND		4.5	0.44	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
m-Xylene & p-Xylene	ND		9.0	0.76	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
n-Butylbenzene	ND		4.5	0.39	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
N-Propylbenzene	ND		4.5	0.36	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
o-Xylene	ND		4.5	0.59	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
sec-Butylbenzene	ND		4.5	0.39	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
tert-Butylbenzene	ND		4.5	0.47	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
Toluene	ND		4.5	0.34	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1
Xylenes, Total	ND		9.0	0.76	ug/Kg	☼	03/07/14 19:43	03/10/14 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	03/07/14 19:43	03/10/14 04:00	1
4-Bromofluorobenzene (Surr)	100		72 - 126	03/07/14 19:43	03/10/14 04:00	1
Toluene-d8 (Surr)	98		71 - 125	03/07/14 19:43	03/10/14 04:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		180	27	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
2,6-Dinitrotoluene	ND		180	43	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
2-Methylnaphthalene	8.5	J	180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
2-Nitroaniline	ND		350	57	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
3,3'-Dichlorobenzidine	ND		180	160	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
3-Nitroaniline	ND		350	41	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
4-Bromophenyl phenyl ether	ND		180	56	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
4-Chloroaniline	ND		180	52	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
4-Chlorophenyl phenyl ether	ND		180	3.8	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
4-Nitroaniline	ND		350	20	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Acenaphthylene	ND		180	1.5	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Acetophenone	ND		180	9.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Anthracene	ND		180	4.5	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Atrazine	ND		180	7.9	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Benzaldehyde	ND		180	19	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Benzo(a)anthracene	ND		180	3.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Benzo(a)pyrene	ND		180	4.3	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Benzo(b)fluoranthene	ND		180	3.4	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Benzo(g,h,i)perylene	ND		180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Benzo(k)fluoranthene	ND		180	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Biphenyl	ND		180	11	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
bis (2-chloroisopropyl) ether	ND		180	19	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Bis(2-chloroethoxy)methane	ND		180	9.6	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Bis(2-chloroethyl)ether	ND		180	15	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Bis(2-ethylhexyl) phthalate	700		180	57	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-2 (4-6)

Lab Sample ID: 480-55676-2

Date Collected: 03/06/14 09:57

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND	*	180	48	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Caprolactam	ND		180	77	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Carbazole	ND		180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Chrysene	ND		180	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Dibenzofuran	ND		180	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Diethyl phthalate	ND		180	5.4	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Dimethyl phthalate	ND		180	4.6	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Di-n-butyl phthalate	ND		180	61	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Di-n-octyl phthalate	ND		180	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Fluoranthene	8.5	J	180	2.6	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Fluorene	ND		180	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Hexachlorobenzene	ND		180	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Hexachlorobutadiene	ND		180	9.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Hexachlorocyclopentadiene	ND		180	54	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Hexachloroethane	ND		180	14	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Indeno(1,2,3-cd)pyrene	ND		180	4.9	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Isophorone	ND		180	8.9	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Naphthalene	9.3	J	180	3.0	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Nitrobenzene	ND		180	7.9	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
N-Nitrosodiphenylamine	ND		180	9.7	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Phenanthrene	10	J	180	3.7	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1
Pyrene	10	J	180	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		39 - 146	03/11/14 08:22	03/12/14 01:16	1
2-Fluorobiphenyl	88		37 - 120	03/11/14 08:22	03/12/14 01:16	1
2-Fluorophenol	75		18 - 120	03/11/14 08:22	03/12/14 01:16	1
Nitrobenzene-d5	93		34 - 132	03/11/14 08:22	03/12/14 01:16	1
Phenol-d5	81		11 - 120	03/11/14 08:22	03/12/14 01:16	1
p-Terphenyl-d14	134		65 - 153	03/11/14 08:22	03/12/14 01:16	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		220	43	ug/Kg	☼	03/10/14 14:51	03/11/14 16:35	1
PCB-1221	ND		220	43	ug/Kg	☼	03/10/14 14:51	03/11/14 16:35	1
PCB-1232	ND		220	43	ug/Kg	☼	03/10/14 14:51	03/11/14 16:35	1
PCB-1242	ND		220	43	ug/Kg	☼	03/10/14 14:51	03/11/14 16:35	1
PCB-1248	ND		220	43	ug/Kg	☼	03/10/14 14:51	03/11/14 16:35	1
PCB-1254	ND		220	100	ug/Kg	☼	03/10/14 14:51	03/11/14 16:35	1
PCB-1260	ND		220	100	ug/Kg	☼	03/10/14 14:51	03/11/14 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	111		47 - 176	03/10/14 14:51	03/11/14 16:35	1
DCB Decachlorobiphenyl	104		47 - 176	03/10/14 14:51	03/11/14 16:35	1
Tetrachloro-m-xylene	101		46 - 175	03/10/14 14:51	03/11/14 16:35	1
Tetrachloro-m-xylene	106		46 - 175	03/10/14 14:51	03/11/14 16:35	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-2 (4-6)

Lab Sample ID: 480-55676-2

Date Collected: 03/06/14 09:57

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 94.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12600		11.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Antimony	ND		16.8		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Arsenic	ND		2.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Barium	119		0.56		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Beryllium	0.67		0.22		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Cadmium	0.27		0.22		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Calcium	1570		56.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Chromium	16.6		0.56		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Cobalt	8.2		0.56		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Copper	7.9		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Iron	17400		11.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Lead	16.8		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Magnesium	3760		22.5		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Manganese	436		0.22		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Nickel	18.7		5.6		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Potassium	1370		33.7		mg/Kg	☼	03/13/14 11:00	03/14/14 16:09	1
Selenium	ND		4.5		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Silver	ND		0.67		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Sodium	484		157		mg/Kg	☼	03/13/14 11:00	03/14/14 16:09	1
Thallium	ND		6.7		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Vanadium	25.1		0.56		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1
Zinc	59.6		2.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020		mg/Kg	☼	03/10/14 07:30	03/10/14 12:45	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-3 (2-4)

Lab Sample ID: 480-55676-3

Date Collected: 03/06/14 11:55

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		9.9	1.9	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
1,3,5-Trimethylbenzene	ND		9.9	0.64	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
4-Isopropyltoluene	ND		9.9	0.80	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
Benzene	ND		9.9	0.49	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
Ethylbenzene	ND		9.9	0.69	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
Isopropylbenzene	ND		9.9	1.5	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
Methyl tert-butyl ether	ND		9.9	0.98	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
m-Xylene & p-Xylene	ND		20	1.7	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
n-Butylbenzene	ND		9.9	0.86	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
N-Propylbenzene	ND		9.9	0.79	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
o-Xylene	ND		9.9	1.3	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
sec-Butylbenzene	ND		9.9	0.86	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
tert-Butylbenzene	ND		9.9	1.0	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
Toluene	ND		9.9	0.75	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1
Xylenes, Total	ND		20	1.7	ug/Kg	☼	03/07/14 19:43	03/10/14 04:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	03/07/14 19:43	03/10/14 04:25	1
4-Bromofluorobenzene (Surr)	98		72 - 126	03/07/14 19:43	03/10/14 04:25	1
Toluene-d8 (Surr)	98		71 - 125	03/07/14 19:43	03/10/14 04:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		170	27	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
2,6-Dinitrotoluene	ND		170	42	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
2-Chloronaphthalene	ND		170	12	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
2-Methylnaphthalene	44	J	170	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
2-Nitroaniline	ND		340	56	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
3-Nitroaniline	ND		340	40	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
4-Bromophenyl phenyl ether	ND		170	55	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
4-Chloroaniline	ND		170	51	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
4-Chlorophenyl phenyl ether	ND		170	3.7	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
4-Nitroaniline	ND		340	19	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Acenaphthene	52	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Acenaphthylene	55	J	170	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Acetophenone	8.9	J	170	8.9	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Anthracene	200		170	4.4	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Atrazine	ND		170	7.7	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Benzaldehyde	50	J	170	19	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Benzo(a)anthracene	660		170	3.0	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Benzo(a)pyrene	560		170	4.2	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Benzo(b)fluoranthene	690		170	3.4	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Benzo(g,h,i)perylene	350		170	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Benzo(k)fluoranthene	320		170	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Biphenyl	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Bis(2-chloroethoxy)methane	ND		170	9.4	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Bis(2-ethylhexyl) phthalate	ND		170	56	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-3 (2-4)

Lab Sample ID: 480-55676-3

Date Collected: 03/06/14 11:55

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND	*	170	47	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Caprolactam	ND		170	75	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Carbazole	42	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Chrysene	610		170	1.7	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Dibenz(a,h)anthracene	110	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Dibenzofuran	44	J	170	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Diethyl phthalate	ND		170	5.2	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Dimethyl phthalate	ND		170	4.5	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Di-n-butyl phthalate	ND		170	60	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Di-n-octyl phthalate	ND		170	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Fluoranthene	1100		170	2.5	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Fluorene	66	J	170	4.0	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Hexachlorobenzene	ND		170	8.6	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Hexachlorobutadiene	ND		170	8.9	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Hexachlorocyclopentadiene	ND		170	52	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Hexachloroethane	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Indeno(1,2,3-cd)pyrene	430		170	4.8	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Isophorone	ND		170	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Naphthalene	39	J	170	2.9	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Nitrobenzene	ND		170	7.7	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
N-Nitrosodi-n-propylamine	ND		170	14	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
N-Nitrosodiphenylamine	ND		170	9.5	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Phenanthrene	730		170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1
Pyrene	1500		170	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	82		39 - 146	03/11/14 08:22	03/12/14 01:39	1
2-Fluorobiphenyl	83		37 - 120	03/11/14 08:22	03/12/14 01:39	1
2-Fluorophenol	67		18 - 120	03/11/14 08:22	03/12/14 01:39	1
Nitrobenzene-d5	84		34 - 132	03/11/14 08:22	03/12/14 01:39	1
Phenol-d5	76		11 - 120	03/11/14 08:22	03/12/14 01:39	1
p-Terphenyl-d14	124		65 - 153	03/11/14 08:22	03/12/14 01:39	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 16:50	1
PCB-1221	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 16:50	1
PCB-1232	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 16:50	1
PCB-1242	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 16:50	1
PCB-1248	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 16:50	1
PCB-1254	ND		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 16:50	1
PCB-1260	ND		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		47 - 176	03/10/14 14:51	03/11/14 16:50	1
DCB Decachlorobiphenyl	102		47 - 176	03/10/14 14:51	03/11/14 16:50	1
Tetrachloro-m-xylene	101		46 - 175	03/10/14 14:51	03/11/14 16:50	1
Tetrachloro-m-xylene	103		46 - 175	03/10/14 14:51	03/11/14 16:50	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-3 (2-4)

Lab Sample ID: 480-55676-3

Date Collected: 03/06/14 11:55

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5930		9.8		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Antimony	ND		14.6		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Arsenic	6.9		2.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Barium	161		0.49		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Beryllium	0.34		0.20		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Cadmium	0.32		0.20		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Calcium	34500		48.8		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Chromium	10.2		0.49		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Cobalt	4.9		0.49		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Copper	35.9		0.98		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Iron	13000		9.8		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Lead	307		0.98		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Magnesium	5700		19.5		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Manganese	290		0.20		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Nickel	11.6		4.9		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Potassium	1410		29.3		mg/Kg	☼	03/13/14 11:00	03/14/14 16:12	1
Selenium	ND		3.9		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Silver	ND		0.59		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Sodium	638		137		mg/Kg	☼	03/13/14 11:00	03/14/14 16:12	1
Thallium	ND		5.9		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Vanadium	12.3		0.49		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1
Zinc	251		2.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.098		mg/Kg	☼	03/10/14 07:30	03/10/14 13:48	5

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-4 (0.5-4.0)

Lab Sample ID: 480-55676-4

Date Collected: 03/06/14 11:08

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 94.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		18	3.5	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
1,3,5-Trimethylbenzene	ND		18	1.2	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
4-Isopropyltoluene	ND		18	1.5	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
Benzene	1.6	J	18	0.90	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
Ethylbenzene	ND		18	1.3	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
Isopropylbenzene	ND		18	2.8	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
Methyl tert-butyl ether	ND		18	1.8	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
m-Xylene & p-Xylene	ND		37	3.1	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
n-Butylbenzene	ND		18	1.6	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
N-Propylbenzene	ND		18	1.5	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
o-Xylene	ND		18	2.4	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
sec-Butylbenzene	ND		18	1.6	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
tert-Butylbenzene	ND		18	1.9	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
Toluene	3.7	J	18	1.4	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1
Xylenes, Total	ND		37	3.1	ug/Kg	☼	03/07/14 19:43	03/10/14 04:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 126	03/07/14 19:43	03/10/14 04:51	1
4-Bromofluorobenzene (Surr)	96		72 - 126	03/07/14 19:43	03/10/14 04:51	1
Toluene-d8 (Surr)	98		71 - 125	03/07/14 19:43	03/10/14 04:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		180	27	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
2,6-Dinitrotoluene	ND		180	43	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
2-Methylnaphthalene	370		180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
2-Nitroaniline	ND		340	56	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
3,3'-Dichlorobenzidine	ND		180	150	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
3-Nitroaniline	ND		340	40	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
4-Bromophenyl phenyl ether	ND		180	55	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
4-Chloroaniline	ND		180	51	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
4-Chlorophenyl phenyl ether	ND		180	3.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
4-Nitroaniline	ND		340	19	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Acenaphthene	27	J	180	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Acenaphthylene	22	J	180	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Acetophenone	47	J	180	8.9	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Anthracene	71	J	180	4.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Atrazine	ND		180	7.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Benzaldehyde	ND		180	19	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Benzo(a)anthracene	200		180	3.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Benzo(a)pyrene	190		180	4.2	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Benzo(b)fluoranthene	250		180	3.4	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Benzo(g,h,i)perylene	130	J	180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Benzo(k)fluoranthene	93	J	180	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Biphenyl	36	J	180	11	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
bis (2-chloroisopropyl) ether	ND		180	18	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Bis(2-chloroethoxy)methane	ND		180	9.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Bis(2-chloroethyl)ether	ND		180	15	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Bis(2-ethylhexyl) phthalate	ND		180	56	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-4 (0.5-4.0)

Lab Sample ID: 480-55676-4

Date Collected: 03/06/14 11:08

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 94.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND	*	180	47	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Caprolactam	ND		180	75	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Carbazole	40	J	180	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Chrysene	200		180	1.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Dibenz(a,h)anthracene	ND		180	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Dibenzofuran	110	J	180	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Diethyl phthalate	ND		180	5.3	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Dimethyl phthalate	ND		180	4.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Di-n-butyl phthalate	ND		180	60	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Di-n-octyl phthalate	ND		180	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Fluoranthene	300		180	2.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Fluorene	33	J	180	4.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Hexachlorobenzene	ND		180	8.6	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Hexachlorobutadiene	ND		180	8.9	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Hexachlorocyclopentadiene	ND		180	53	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Hexachloroethane	ND		180	13	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Indeno(1,2,3-cd)pyrene	150	J	180	4.8	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Isophorone	ND		180	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Naphthalene	250		180	2.9	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Nitrobenzene	ND		180	7.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
N-Nitrosodiphenylamine	ND		180	9.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Phenanthrene	440		180	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1
Pyrene	440		180	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		39 - 146	03/11/14 08:22	03/12/14 02:02	1
2-Fluorobiphenyl	88		37 - 120	03/11/14 08:22	03/12/14 02:02	1
2-Fluorophenol	73		18 - 120	03/11/14 08:22	03/12/14 02:02	1
Nitrobenzene-d5	89		34 - 132	03/11/14 08:22	03/12/14 02:02	1
Phenol-d5	79		11 - 120	03/11/14 08:22	03/12/14 02:02	1
p-Terphenyl-d14	123		65 - 153	03/11/14 08:22	03/12/14 02:02	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		240	46	ug/Kg	☼	03/10/14 14:51	03/11/14 17:05	1
PCB-1221	ND		240	46	ug/Kg	☼	03/10/14 14:51	03/11/14 17:05	1
PCB-1232	ND		240	46	ug/Kg	☼	03/10/14 14:51	03/11/14 17:05	1
PCB-1242	ND		240	46	ug/Kg	☼	03/10/14 14:51	03/11/14 17:05	1
PCB-1248	ND		240	46	ug/Kg	☼	03/10/14 14:51	03/11/14 17:05	1
PCB-1254	ND		240	110	ug/Kg	☼	03/10/14 14:51	03/11/14 17:05	1
PCB-1260	ND		240	110	ug/Kg	☼	03/10/14 14:51	03/11/14 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	112		47 - 176	03/10/14 14:51	03/11/14 17:05	1
DCB Decachlorobiphenyl	104		47 - 176	03/10/14 14:51	03/11/14 17:05	1
Tetrachloro-m-xylene	103		46 - 175	03/10/14 14:51	03/11/14 17:05	1
Tetrachloro-m-xylene	106		46 - 175	03/10/14 14:51	03/11/14 17:05	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-4 (0.5-4.0)

Lab Sample ID: 480-55676-4

Date Collected: 03/06/14 11:08

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 94.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1810		10.9		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Antimony	ND		16.4		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Arsenic	24.3		2.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Barium	39.0		0.55		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Beryllium	0.28		0.22		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Cadmium	ND		0.22		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Calcium	22900		54.6		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Chromium	5.7		0.55		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Cobalt	12.0		0.55		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Copper	110		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Iron	36900		10.9		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Lead	598		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Magnesium	782		21.8		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Manganese	111		0.22		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Nickel	13.5		5.5		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Potassium	473		32.8		mg/Kg	☼	03/13/14 11:00	03/14/14 16:15	1
Selenium	ND		4.4		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Silver	ND		0.66		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Sodium	353		153		mg/Kg	☼	03/13/14 11:00	03/14/14 16:15	1
Thallium	ND		6.6		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Vanadium	13.2		0.55		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1
Zinc	44.0		2.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.021		mg/Kg	☼	03/10/14 07:30	03/10/14 12:49	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-5 (4-6)

Lab Sample ID: 480-55676-5

Date Collected: 03/06/14 15:38

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		91	26	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
1,3,5-Trimethylbenzene	ND		91	28	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
4-Isopropyltoluene	79	J	91	31	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
Benzene	ND		91	4.4	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
Ethylbenzene	ND		91	27	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
Isopropylbenzene	230		91	14	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
Methyl tert-butyl ether	ND		91	35	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
m-Xylene & p-Xylene	ND		180	51	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
n-Butylbenzene	330		91	27	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
N-Propylbenzene	360		91	24	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
o-Xylene	ND		91	12	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
sec-Butylbenzene	170		91	34	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
tert-Butylbenzene	26	J	91	25	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
Toluene	ND		91	25	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1
Xylenes, Total	ND		180	15	ug/Kg	☼	03/07/14 20:03	03/14/14 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		53 - 146	03/07/14 20:03	03/14/14 01:02	1
4-Bromofluorobenzene (Surr)	86		49 - 148	03/07/14 20:03	03/14/14 01:02	1
Toluene-d8 (Surr)	81		50 - 149	03/07/14 20:03	03/14/14 01:02	1
Dibromofluoromethane (Surr)	78		60 - 140	03/07/14 20:03	03/14/14 01:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	37	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2,4,6-Trichlorophenol	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2,4-Dichlorophenol	ND		170	8.9	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2,4-Dimethylphenol	ND		170	46	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2,4-Dinitrophenol	ND		330	60	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2,4-Dinitrotoluene	ND		170	26	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2,6-Dinitrotoluene	ND		170	42	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2-Chloronaphthalene	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2-Chlorophenol	ND		170	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2-Methylnaphthalene	76	J	170	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2-Methylphenol	ND		170	5.2	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2-Nitroaniline	ND		330	55	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
2-Nitrophenol	ND		170	7.8	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
3-Nitroaniline	ND		330	39	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
4,6-Dinitro-2-methylphenol	ND		330	59	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
4-Bromophenyl phenyl ether	ND		170	54	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
4-Chloro-3-methylphenol	ND		170	7.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
4-Chloroaniline	ND		170	50	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
4-Methylphenol	ND		330	9.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
4-Nitroaniline	ND		330	19	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
4-Nitrophenol	ND	*	330	41	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Acenaphthene	ND		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Acenaphthylene	ND		170	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Acetophenone	72	J	170	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-5 (4-6)

Lab Sample ID: 480-55676-5

Date Collected: 03/06/14 15:38

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		170	4.4	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Atrazine	ND		170	7.6	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Benzaldehyde	ND		170	19	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Benzo(a)anthracene	ND		170	2.9	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Benzo(a)pyrene	ND		170	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Benzo(b)fluoranthene	ND		170	3.3	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Benzo(g,h,i)perylene	ND		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Benzo(k)fluoranthene	ND		170	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Biphenyl	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Bis(2-chloroethoxy)methane	ND		170	9.3	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Bis(2-ethylhexyl) phthalate	ND		170	55	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Butyl benzyl phthalate	ND	*	170	46	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Caprolactam	ND		170	74	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Carbazole	ND		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Chrysene	ND		170	1.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Dibenzofuran	ND		170	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Diethyl phthalate	ND		170	5.2	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Dimethyl phthalate	ND		170	4.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Di-n-butyl phthalate	ND		170	59	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Di-n-octyl phthalate	ND		170	4.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Fluoranthene	ND		170	2.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Fluorene	ND		170	3.9	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Hexachlorobenzene	ND		170	8.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Hexachlorobutadiene	ND		170	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Hexachlorocyclopentadiene	ND		170	52	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Hexachloroethane	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Indeno(1,2,3-cd)pyrene	ND		170	4.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Isophorone	ND		170	8.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Naphthalene	100	J	170	2.8	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Nitrobenzene	ND		170	7.6	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
N-Nitrosodi-n-propylamine	ND		170	14	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
N-Nitrosodiphenylamine	ND		170	9.3	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Pentachlorophenol	ND		330	59	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Phenanthrene	ND		170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Phenol	ND		170	18	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Pyrene	ND		170	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	102		39 - 146				03/11/14 08:22	03/12/14 02:26	1
2-Fluorobiphenyl	91		37 - 120				03/11/14 08:22	03/12/14 02:26	1
2-Fluorophenol	76		18 - 120				03/11/14 08:22	03/12/14 02:26	1
Nitrobenzene-d5	100		34 - 132				03/11/14 08:22	03/12/14 02:26	1
Phenol-d5	79		11 - 120				03/11/14 08:22	03/12/14 02:26	1
p-Terphenyl-d14	136		65 - 153				03/11/14 08:22	03/12/14 02:26	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-6 (5-7)

Lab Sample ID: 480-55676-6

Date Collected: 03/06/14 15:06

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 98.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		170	26	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
2,6-Dinitrotoluene	ND		170	41	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
2-Chloronaphthalene	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
2-Methylnaphthalene	300		170	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
2-Nitroaniline	ND		330	54	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
3-Nitroaniline	ND		330	39	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
4-Bromophenyl phenyl ether	ND		170	54	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
4-Chloroaniline	ND		170	50	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
4-Nitroaniline	ND		330	19	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Acenaphthene	920		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Acenaphthylene	34	J	170	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Acetophenone	ND		170	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Anthracene	1200		170	4.3	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Atrazine	ND		170	7.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Benzaldehyde	ND		170	19	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Benzo(a)anthracene	2500		170	2.9	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Benzo(a)pyrene	2200		170	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Benzo(b)fluoranthene	2700		170	3.3	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Benzo(g,h,i)perylene	1600		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Benzo(k)fluoranthene	1200		170	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Biphenyl	89	J	170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Bis(2-chloroethoxy)methane	ND		170	9.2	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Bis(2-ethylhexyl) phthalate	ND		170	55	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Butyl benzyl phthalate	ND	*	170	45	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Caprolactam	ND		170	73	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Carbazole	720		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Chrysene	2800		170	1.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Dibenz(a,h)anthracene	360		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Dibenzofuran	670		170	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Diethyl phthalate	ND		170	5.1	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Dimethyl phthalate	ND		170	4.4	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Di-n-butyl phthalate	ND		170	59	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Di-n-octyl phthalate	ND		170	4.0	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Fluoranthene	5400	E	170	2.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Fluorene	800		170	3.9	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Hexachlorobenzene	ND		170	8.4	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Hexachlorobutadiene	ND		170	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Hexachlorocyclopentadiene	ND		170	51	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Hexachloroethane	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Indeno(1,2,3-cd)pyrene	1500		170	4.7	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Isophorone	ND		170	8.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Naphthalene	710		170	2.8	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Nitrobenzene	ND		170	7.5	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
N-Nitrosodi-n-propylamine	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
N-Nitrosodiphenylamine	ND		170	9.3	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-6 (5-7)

Lab Sample ID: 480-55676-6

Date Collected: 03/06/14 15:06

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 98.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	7900	E	170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Pyrene	7800	E	170	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 02:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		39 - 146				03/11/14 08:22	03/12/14 02:49	1
2-Fluorobiphenyl	90		37 - 120				03/11/14 08:22	03/12/14 02:49	1
2-Fluorophenol	75		18 - 120				03/11/14 08:22	03/12/14 02:49	1
Nitrobenzene-d5	93		34 - 132				03/11/14 08:22	03/12/14 02:49	1
Phenol-d5	82		11 - 120				03/11/14 08:22	03/12/14 02:49	1
p-Terphenyl-d14	123		65 - 153				03/11/14 08:22	03/12/14 02:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		850	130	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
2,6-Dinitrotoluene	ND		850	210	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
2-Chloronaphthalene	ND		850	57	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
2-Methylnaphthalene	340	J	850	10	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
2-Nitroaniline	ND		1700	270	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
3,3'-Dichlorobenzidine	ND		850	740	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
3-Nitroaniline	ND		1700	190	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
4-Bromophenyl phenyl ether	ND		850	270	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
4-Chloroaniline	ND		850	250	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
4-Chlorophenyl phenyl ether	ND		850	18	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
4-Nitroaniline	ND		1700	95	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Acenaphthene	990		850	10	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Acenaphthylene	41	J	850	6.9	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Acetophenone	ND		850	43	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Anthracene	1400		850	22	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Atrazine	ND		850	38	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Benzaldehyde	ND		850	93	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Benzo(a)anthracene	2900		850	15	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Benzo(a)pyrene	2600		850	20	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Benzo(b)fluoranthene	3300		850	16	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Benzo(g,h,i)perylene	1500		850	10	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Benzo(k)fluoranthene	1300		850	9.3	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Biphenyl	99	J	850	53	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
bis (2-chloroisopropyl) ether	ND		850	88	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Bis(2-chloroethoxy)methane	ND		850	46	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Bis(2-chloroethyl)ether	ND		850	73	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Bis(2-ethylhexyl) phthalate	ND		850	270	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Butyl benzyl phthalate	ND	*	850	230	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Caprolactam	ND		850	370	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Carbazole	820	J	850	9.8	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Chrysene	3300		850	8.5	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Dibenz(a,h)anthracene	490	J	850	10	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Dibenzofuran	740	J	850	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Diethyl phthalate	ND		850	26	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Dimethyl phthalate	ND		850	22	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Di-n-butyl phthalate	ND		850	290	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Di-n-octyl phthalate	ND		850	20	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-6 (5-7)

Lab Sample ID: 480-55676-6

Date Collected: 03/06/14 15:06

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 98.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	6000		850	12	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Fluorene	870		850	20	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Hexachlorobenzene	ND		850	42	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Hexachlorobutadiene	ND		850	43	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Hexachlorocyclopentadiene	ND		850	260	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Hexachloroethane	ND		850	66	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Indeno(1,2,3-cd)pyrene	1700		850	23	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Isophorone	ND		850	42	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Naphthalene	790	J	850	14	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Nitrobenzene	ND		850	38	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
N-Nitrosodi-n-propylamine	ND		850	67	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
N-Nitrosodiphenylamine	ND		850	46	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Phenanthrene	8000		850	18	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5
Pyrene	7800		850	5.5	ug/Kg	☼	03/11/14 08:22	03/12/14 12:01	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92		39 - 146	03/11/14 08:22	03/12/14 12:01	5
2-Fluorobiphenyl	96		37 - 120	03/11/14 08:22	03/12/14 12:01	5
2-Fluorophenol	85		18 - 120	03/11/14 08:22	03/12/14 12:01	5
Nitrobenzene-d5	102		34 - 132	03/11/14 08:22	03/12/14 12:01	5
Phenol-d5	90		11 - 120	03/11/14 08:22	03/12/14 12:01	5
p-Terphenyl-d14	129		65 - 153	03/11/14 08:22	03/12/14 12:01	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		33	6.5	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
4,4'-DDE	12	J	33	5.0	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
4,4'-DDT	12	J	33	3.4	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Aldrin	ND		33	8.2	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
alpha-BHC	ND		33	6.0	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
alpha-Chlordane	ND		33	17	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
beta-BHC	ND		33	3.6	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
delta-BHC	10	J B	33	4.4	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Dieldrin	ND		33	8.0	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Endosulfan I	ND		33	4.2	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Endosulfan II	ND		33	6.0	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Endosulfan sulfate	ND		33	6.2	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Endrin	ND		33	4.6	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Endrin aldehyde	ND		33	8.5	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Endrin ketone	ND		33	8.2	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
gamma-BHC (Lindane)	ND		33	4.1	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
gamma-Chlordane	ND		33	11	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Heptachlor	ND		33	5.2	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Heptachlor epoxide	ND		33	8.6	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Methoxychlor	ND		33	4.6	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20
Toxaphene	ND		330	190	ug/Kg	☼	03/12/14 06:22	03/12/14 11:04	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 11:04	20
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 11:04	20

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-6 (5-7)

Lab Sample ID: 480-55676-6

Date Collected: 03/06/14 15:06

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 98.3

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 11:04	20
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 11:04	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10200		10.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Antimony	ND		15.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Arsenic	5.9		2.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Barium	127		0.51		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Beryllium	0.49		0.20		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Cadmium	0.28		0.20		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Calcium	18500		50.8		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Chromium	13.3		0.51		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Cobalt	6.5		0.51		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Copper	27.7		1.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Iron	12800		10.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Lead	227		1.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Magnesium	7350		20.3		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Manganese	311		0.20		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Nickel	14.6		5.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Potassium	1300		30.5		mg/Kg	☼	03/13/14 11:00	03/14/14 16:17	1
Selenium	ND		4.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Silver	ND		0.61		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Sodium	232		142		mg/Kg	☼	03/13/14 11:00	03/14/14 16:17	1
Thallium	ND		6.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Vanadium	20.6		0.51		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1
Zinc	113		2.0		mg/Kg	☼	03/13/14 11:00	03/14/14 04:50	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.74		0.020		mg/Kg	☼	03/10/14 07:30	03/10/14 12:50	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-7 (2-4)

Lab Sample ID: 480-55676-7

Date Collected: 03/06/14 14:11

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.4	0.39	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,1,2,2-Tetrachloroethane	ND		5.4	0.87	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.4	1.2	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,1,2-Trichloroethane	ND		5.4	0.70	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,1-Dichloroethane	ND		5.4	0.65	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,1-Dichloroethene	ND		5.4	0.66	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,2,4-Trichlorobenzene	ND		5.4	0.33	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,2,4-Trimethylbenzene	ND		5.4	1.0	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,2-Dibromo-3-Chloropropane	ND		5.4	2.7	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,2-Dibromoethane	ND		5.4	0.69	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,2-Dichlorobenzene	ND		5.4	0.42	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,2-Dichloroethane	ND		5.4	0.27	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,2-Dichloropropane	ND		5.4	2.7	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,3,5-Trimethylbenzene	ND		5.4	0.34	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,3-Dichlorobenzene	ND		5.4	0.28	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
1,4-Dichlorobenzene	ND		5.4	0.75	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
2-Butanone (MEK)	ND		27	2.0	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
2-Hexanone	ND		27	2.7	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
4-Isopropyltoluene	ND		5.4	0.43	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Acetone	ND		27	4.5	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Benzene	ND		5.4	0.26	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Bromodichloromethane	ND		5.4	0.72	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Bromoform	ND		5.4	2.7	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Bromomethane	ND		5.4	0.48	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Carbon disulfide	ND		5.4	2.7	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Carbon tetrachloride	ND		5.4	0.52	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Chlorobenzene	ND		5.4	0.71	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Chloroethane	ND		5.4	1.2	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Chloroform	ND		5.4	0.33	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Chloromethane	ND		5.4	0.32	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
cis-1,2-Dichloroethene	ND		5.4	0.69	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
cis-1,3-Dichloropropene	ND		5.4	0.77	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Cyclohexane	ND		5.4	0.75	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Dibromochloromethane	ND		5.4	0.69	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Dichlorodifluoromethane	ND		5.4	0.44	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Ethylbenzene	ND		5.4	0.37	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Isopropylbenzene	ND		5.4	0.81	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
m,p-Xylene	ND		11	0.90	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Methyl acetate	ND		5.4	1.0	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Methyl tert-butyl ether	ND		5.4	0.53	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Methylcyclohexane	ND		5.4	0.81	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Methylene Chloride	ND		5.4	2.5	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
n-Butylbenzene	ND		5.4	0.47	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
N-Propylbenzene	ND		5.4	0.43	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
o-Xylene	ND		5.4	0.70	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
sec-Butylbenzene	ND		5.4	0.47	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Styrene	ND		5.4	0.27	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
tert-Butylbenzene	ND		5.4	0.56	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-7 (2-4)

Lab Sample ID: 480-55676-7

Date Collected: 03/06/14 14:11

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.4	0.72	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Toluene	ND		5.4	0.40	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
trans-1,2-Dichloroethene	ND		5.4	0.55	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
trans-1,3-Dichloropropene	ND		5.4	2.4	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Trichloroethene	ND		5.4	1.2	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Trichlorofluoromethane	ND		5.4	0.51	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Vinyl chloride	ND		5.4	0.65	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1
Xylenes, Total	ND		11	0.90	ug/Kg	☼	03/07/14 19:43	03/10/14 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	03/07/14 19:43	03/10/14 05:43	1
4-Bromofluorobenzene (Surr)	101		72 - 126	03/07/14 19:43	03/10/14 05:43	1
Toluene-d8 (Surr)	101		71 - 125	03/07/14 19:43	03/10/14 05:43	1
Dibromofluoromethane (Surr)	98		60 - 140	03/07/14 19:43	03/10/14 05:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		180	27	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
2,6-Dinitrotoluene	ND		180	43	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
2-Methylnaphthalene	88	J	180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
2-Nitroaniline	ND		350	57	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
3,3'-Dichlorobenzidine	ND		180	150	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
3-Nitroaniline	ND		350	41	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
4-Bromophenyl phenyl ether	ND		180	56	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
4-Chloroaniline	ND		180	52	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
4-Chlorophenyl phenyl ether	ND		180	3.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
4-Nitroaniline	ND		350	20	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Acenaphthene	8.7	J	180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Acenaphthylene	34	J	180	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Acetophenone	ND		180	9.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Anthracene	29	J	180	4.5	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Atrazine	ND		180	7.9	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Benzaldehyde	ND		180	19	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Benzo(a)anthracene	220		180	3.0	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Benzo(a)pyrene	290		180	4.3	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Benzo(b)fluoranthene	310		180	3.4	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Benzo(g,h,i)perylene	210		180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Benzo(k)fluoranthene	150	J	180	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Biphenyl	ND		180	11	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
bis (2-chloroisopropyl) ether	ND		180	18	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Bis(2-chloroethoxy)methane	ND		180	9.6	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Bis(2-chloroethyl)ether	ND		180	15	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Bis(2-ethylhexyl) phthalate	ND		180	57	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Butyl benzyl phthalate	ND	*	180	47	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Caprolactam	ND		180	76	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Carbazole	14	J	180	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Chrysene	220		180	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Dibenz(a,h)anthracene	60	J	180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Dibenzofuran	28	J	180	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-7 (2-4)

Lab Sample ID: 480-55676-7

Date Collected: 03/06/14 14:11

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		180	5.3	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Dimethyl phthalate	ND		180	4.6	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Di-n-butyl phthalate	ND		180	61	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Di-n-octyl phthalate	ND		180	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Fluoranthene	180		180	2.6	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Fluorene	ND		180	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Hexachlorobenzene	ND		180	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Hexachlorobutadiene	ND		180	9.0	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Hexachlorocyclopentadiene	ND		180	53	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Hexachloroethane	ND		180	14	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Indeno(1,2,3-cd)pyrene	250		180	4.9	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Isophorone	ND		180	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Naphthalene	64	J	180	2.9	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Nitrobenzene	ND		180	7.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
N-Nitrosodiphenylamine	ND		180	9.6	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Phenanthrene	120	J	180	3.7	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1
Pyrene	330		180	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	100		39 - 146	03/11/14 08:22	03/12/14 04:11	1
2-Fluorobiphenyl	92		37 - 120	03/11/14 08:22	03/12/14 04:11	1
2-Fluorophenol	79		18 - 120	03/11/14 08:22	03/12/14 04:11	1
Nitrobenzene-d5	92		34 - 132	03/11/14 08:22	03/12/14 04:11	1
Phenol-d5	85		11 - 120	03/11/14 08:22	03/12/14 04:11	1
p-Terphenyl-d14	130		65 - 153	03/11/14 08:22	03/12/14 04:11	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		34	6.7	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
4,4'-DDE	9.9	J	34	5.2	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
4,4'-DDT	12	J	34	3.5	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Aldrin	ND		34	8.5	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
alpha-BHC	ND		34	6.2	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
alpha-Chlordane	ND		34	17	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
beta-BHC	ND		34	3.7	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
delta-BHC	ND		34	4.5	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Dieldrin	ND		34	8.2	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Endosulfan I	ND		34	4.3	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Endosulfan II	ND		34	6.2	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Endosulfan sulfate	ND		34	6.4	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Endrin	ND		34	4.7	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Endrin aldehyde	ND		34	8.8	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Endrin ketone	ND		34	8.5	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
gamma-BHC (Lindane)	7.9	J	34	4.2	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
gamma-Chlordane	ND		34	11	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Heptachlor	ND		34	5.4	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Heptachlor epoxide	ND		34	8.9	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Methoxychlor	ND		34	4.7	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20
Toxaphene	ND		340	200	ug/Kg	☼	03/12/14 06:22	03/12/14 11:22	20

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-7 (2-4)

Lab Sample ID: 480-55676-7

Date Collected: 03/06/14 14:11

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 11:22	20
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 11:22	20
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 11:22	20
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 11:22	20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		220	44	ug/Kg	☼	03/10/14 14:51	03/11/14 17:20	1
PCB-1221	ND		220	44	ug/Kg	☼	03/10/14 14:51	03/11/14 17:20	1
PCB-1232	ND		220	44	ug/Kg	☼	03/10/14 14:51	03/11/14 17:20	1
PCB-1242	ND		220	44	ug/Kg	☼	03/10/14 14:51	03/11/14 17:20	1
PCB-1248	ND		220	44	ug/Kg	☼	03/10/14 14:51	03/11/14 17:20	1
PCB-1254	ND		220	100	ug/Kg	☼	03/10/14 14:51	03/11/14 17:20	1
PCB-1260	ND		220	100	ug/Kg	☼	03/10/14 14:51	03/11/14 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	115		47 - 176	03/10/14 14:51	03/11/14 17:20	1
DCB Decachlorobiphenyl	106		47 - 176	03/10/14 14:51	03/11/14 17:20	1
Tetrachloro-m-xylene	102		46 - 175	03/10/14 14:51	03/11/14 17:20	1
Tetrachloro-m-xylene	107		46 - 175	03/10/14 14:51	03/11/14 17:20	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.6	ug/Kg	☼	03/11/14 14:57	03/14/14 10:39	1
Silvex (2,4,5-TP)	ND		17	6.3	ug/Kg	☼	03/11/14 14:57	03/14/14 10:39	1
2,4-D	ND		17	11	ug/Kg	☼	03/11/14 14:57	03/14/14 10:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	86		39 - 120	03/11/14 14:57	03/14/14 10:39	1
2,4-Dichlorophenylacetic acid	81		39 - 120	03/11/14 14:57	03/14/14 10:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9490		10.6		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Antimony	ND		15.9		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Arsenic	6.7		2.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Barium	145		0.53		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Beryllium	0.50		0.21		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Cadmium	0.26		0.21		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Calcium	30200		53.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Chromium	14.2		0.53		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Cobalt	6.5		0.53		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Copper	46.0		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Iron	14100		10.6		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Lead	196		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Magnesium	9680		21.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Manganese	247		0.21		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Nickel	15.7		5.3		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Potassium	1880		31.8		mg/Kg	☼	03/13/14 11:00	03/14/14 16:20	1
Selenium	ND		4.2		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Silver	ND		0.64		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-7 (2-4)

Lab Sample ID: 480-55676-7

Date Collected: 03/06/14 14:11

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.1

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	341		149		mg/Kg	☼	03/13/14 11:00	03/14/14 16:20	1
Thallium	ND		6.4		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Vanadium	19.4		0.53		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1
Zinc	131		2.1		mg/Kg	☼	03/13/14 11:00	03/14/14 04:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.021		mg/Kg	☼	03/10/14 07:30	03/10/14 12:52	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-8 (6-8)

Lab Sample ID: 480-55676-8

Date Collected: 03/06/14 15:00

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		13	0.93	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,1,2,2-Tetrachloroethane	ND		13	2.1	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		13	2.9	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,1,2-Trichloroethane	ND		13	1.7	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,1-Dichloroethane	ND		13	1.6	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,1-Dichloroethene	ND		13	1.6	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,2,4-Trichlorobenzene	ND		13	0.78	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,2,4-Trimethylbenzene	ND		13	2.5	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,2-Dibromo-3-Chloropropane	ND		13	6.4	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,2-Dibromoethane	ND		13	1.6	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,2-Dichlorobenzene	ND		13	1.0	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,2-Dichloroethane	ND		13	0.64	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,2-Dichloropropane	ND		13	6.4	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,3,5-Trimethylbenzene	ND		13	0.82	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,3-Dichlorobenzene	ND		13	0.66	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
1,4-Dichlorobenzene	ND		13	1.8	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
2-Butanone (MEK)	ND		64	4.7	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
2-Hexanone	ND		64	6.4	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
4-Isopropyltoluene	ND		13	1.0	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
4-Methyl-2-pentanone (MIBK)	ND		64	4.2	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Acetone	27	J	64	11	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Benzene	ND		13	0.63	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Bromodichloromethane	ND		13	1.7	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Bromoform	ND		13	6.4	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Bromomethane	ND		13	1.2	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Carbon disulfide	ND		13	6.4	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Carbon tetrachloride	ND		13	1.2	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Chlorobenzene	ND		13	1.7	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Chloroethane	ND		13	2.9	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Chloroform	ND		13	0.79	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Chloromethane	ND		13	0.77	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
cis-1,2-Dichloroethene	ND		13	1.6	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
cis-1,3-Dichloropropene	ND		13	1.8	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Cyclohexane	ND		13	1.8	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Dibromochloromethane	ND		13	1.6	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Dichlorodifluoromethane	ND		13	1.1	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Ethylbenzene	ND		13	0.88	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Isopropylbenzene	ND		13	1.9	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
m,p-Xylene	ND		26	2.2	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Methyl acetate	ND		13	2.4	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Methyl tert-butyl ether	ND		13	1.3	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Methylcyclohexane	ND		13	1.9	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Methylene Chloride	ND		13	5.9	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
n-Butylbenzene	ND		13	1.1	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
N-Propylbenzene	ND		13	1.0	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
o-Xylene	ND		13	1.7	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
sec-Butylbenzene	ND		13	1.1	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Styrene	ND		13	0.64	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
tert-Butylbenzene	ND		13	1.3	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-8 (6-8)

Lab Sample ID: 480-55676-8

Date Collected: 03/06/14 15:00

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		13	1.7	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Toluene	ND		13	0.97	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
trans-1,2-Dichloroethene	ND		13	1.3	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
trans-1,3-Dichloropropene	ND		13	5.6	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Trichloroethene	ND		13	2.8	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Trichlorofluoromethane	ND		13	1.2	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Vinyl chloride	ND		13	1.6	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1
Xylenes, Total	ND		26	2.2	ug/Kg	☼	03/07/14 19:43	03/10/14 06:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 126	03/07/14 19:43	03/10/14 06:09	1
4-Bromofluorobenzene (Surr)	99		72 - 126	03/07/14 19:43	03/10/14 06:09	1
Toluene-d8 (Surr)	99		71 - 125	03/07/14 19:43	03/10/14 06:09	1
Dibromofluoromethane (Surr)	97		60 - 140	03/07/14 19:43	03/10/14 06:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		170	26	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
2,6-Dinitrotoluene	ND		170	42	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
2-Chloronaphthalene	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
2-Methylnaphthalene	430		170	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
2-Nitroaniline	ND		330	55	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
3-Nitroaniline	ND		330	39	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
4-Bromophenyl phenyl ether	ND		170	54	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
4-Chloroaniline	ND		170	50	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
4-Nitroaniline	ND		330	19	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Acenaphthene	310		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Acenaphthylene	16 J		170	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Acetophenone	34 J		170	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Anthracene	570		170	4.4	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Atrazine	ND		170	7.6	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Benzaldehyde	ND		170	19	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Benzo(a)anthracene	810		170	3.0	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Benzo(a)pyrene	750		170	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Benzo(b)fluoranthene	870		170	3.3	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Benzo(g,h,i)perylene	520		170	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Benzo(k)fluoranthene	410		170	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Biphenyl	68 J		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Bis(2-chloroethoxy)methane	ND		170	9.3	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Bis(2-ethylhexyl) phthalate	ND		170	55	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Butyl benzyl phthalate	ND *		170	46	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Caprolactam	ND		170	74	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Carbazole	220		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Chrysene	800		170	1.7	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Dibenz(a,h)anthracene	110 J		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Dibenzofuran	290		170	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-8 (6-8)

Lab Sample ID: 480-55676-8

Date Collected: 03/06/14 15:00

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		170	5.2	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Dimethyl phthalate	ND		170	4.5	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Di-n-butyl phthalate	ND		170	59	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Di-n-octyl phthalate	ND		170	4.0	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Fluoranthene	1400		170	2.5	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Fluorene	350		170	3.9	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Hexachlorobenzene	ND		170	8.5	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Hexachlorobutadiene	ND		170	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Hexachlorocyclopentadiene	ND		170	52	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Hexachloroethane	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Indeno(1,2,3-cd)pyrene	620		170	4.7	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Isophorone	ND		170	8.5	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Naphthalene	660		170	2.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Nitrobenzene	ND		170	7.6	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
N-Nitrosodi-n-propylamine	ND		170	14	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
N-Nitrosodiphenylamine	ND		170	9.4	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Phenanthrene	2000		170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1
Pyrene	1900		170	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	101		39 - 146	03/11/14 08:22	03/12/14 04:34	1
2-Fluorobiphenyl	93		37 - 120	03/11/14 08:22	03/12/14 04:34	1
2-Fluorophenol	77		18 - 120	03/11/14 08:22	03/12/14 04:34	1
Nitrobenzene-d5	93		34 - 132	03/11/14 08:22	03/12/14 04:34	1
Phenol-d5	84		11 - 120	03/11/14 08:22	03/12/14 04:34	1
p-Terphenyl-d14	135		65 - 153	03/11/14 08:22	03/12/14 04:34	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		34	6.6	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
4,4'-DDE	8.5	J	34	5.1	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
4,4'-DDT	11	J	34	3.4	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Aldrin	ND		34	8.3	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
alpha-BHC	ND		34	6.1	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
alpha-Chlordane	ND		34	17	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
beta-BHC	ND		34	3.6	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
delta-BHC	ND		34	4.5	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Dieldrin	ND		34	8.1	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Endosulfan I	ND		34	4.3	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Endosulfan II	ND		34	6.1	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Endosulfan sulfate	ND		34	6.3	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Endrin	ND		34	4.7	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Endrin aldehyde	ND		34	8.6	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Endrin ketone	ND		34	8.3	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
gamma-BHC (Lindane)	ND		34	4.2	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
gamma-Chlordane	ND		34	11	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Heptachlor	ND		34	5.3	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Heptachlor epoxide	ND		34	8.7	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Methoxychlor	8.6	J	34	4.7	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20
Toxaphene	ND		340	200	ug/Kg	☼	03/12/14 06:22	03/12/14 11:39	20

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-8 (6-8)

Lab Sample ID: 480-55676-8

Date Collected: 03/06/14 15:00

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 11:39	20
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 11:39	20
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 11:39	20
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 11:39	20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1200	230	ug/Kg	✱	03/10/14 14:51	03/11/14 17:35	5
PCB-1221	ND		1200	230	ug/Kg	✱	03/10/14 14:51	03/11/14 17:35	5
PCB-1232	ND		1200	230	ug/Kg	✱	03/10/14 14:51	03/11/14 17:35	5
PCB-1242	ND		1200	230	ug/Kg	✱	03/10/14 14:51	03/11/14 17:35	5
PCB-1248	ND		1200	230	ug/Kg	✱	03/10/14 14:51	03/11/14 17:35	5
PCB-1254	ND		1200	550	ug/Kg	✱	03/10/14 14:51	03/11/14 17:35	5
PCB-1260	ND		1200	550	ug/Kg	✱	03/10/14 14:51	03/11/14 17:35	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	116		47 - 176	03/10/14 14:51	03/11/14 17:35	5
DCB Decachlorobiphenyl	131		47 - 176	03/10/14 14:51	03/11/14 17:35	5
Tetrachloro-m-xylene	101		46 - 175	03/10/14 14:51	03/11/14 17:35	5
Tetrachloro-m-xylene	123		46 - 175	03/10/14 14:51	03/11/14 17:35	5

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.5	ug/Kg	✱	03/11/14 14:57	03/14/14 11:09	1
Silvex (2,4,5-TP)	ND		17	6.2	ug/Kg	✱	03/11/14 14:57	03/14/14 11:09	1
2,4-D	ND		17	11	ug/Kg	✱	03/11/14 14:57	03/14/14 11:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	110		39 - 120	03/11/14 14:57	03/14/14 11:09	1
2,4-Dichlorophenylacetic acid	174	X	39 - 120	03/11/14 14:57	03/14/14 11:09	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4040		10.4		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Antimony	ND		15.6		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Arsenic	9.5		2.1		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Barium	48.8		0.52		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Beryllium	0.31		0.21		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Cadmium	ND		0.21		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Calcium	37100		52.0		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Chromium	4.7		0.52		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Cobalt	2.7		0.52		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Copper	8.0		1.0		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Iron	8440		10.4		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Lead	6.9		1.0		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Magnesium	4140		20.8		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Manganese	97.7		0.21		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Nickel	6.7		5.2		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Potassium	429		31.2		mg/Kg	✱	03/13/14 11:00	03/14/14 16:23	1
Selenium	ND		4.2		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1
Silver	ND		0.62		mg/Kg	✱	03/13/14 11:00	03/14/14 05:05	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-8 (6-8)

Date Collected: 03/06/14 15:00

Date Received: 03/07/14 11:20

Lab Sample ID: 480-55676-8

Matrix: Solid

Percent Solids: 96.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	281		146		mg/Kg	☼	03/13/14 11:00	03/14/14 16:23	1
Thallium	ND		6.2		mg/Kg	☼	03/13/14 11:00	03/14/14 05:05	1
Vanadium	9.6		0.52		mg/Kg	☼	03/13/14 11:00	03/14/14 05:05	1
Zinc	14.4		2.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:05	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021		mg/Kg	☼	03/10/14 07:30	03/10/14 13:03	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-9 (2-4)

Lab Sample ID: 480-55676-9

Date Collected: 03/06/14 14:06

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 94.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		180	27	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
2,6-Dinitrotoluene	ND		180	43	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
2-Methylnaphthalene	16	J	180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
2-Nitroaniline	ND		350	57	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
3,3'-Dichlorobenzidine	ND		180	150	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
3-Nitroaniline	ND		350	41	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
4-Bromophenyl phenyl ether	ND		180	56	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
4-Chloroaniline	ND		180	52	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
4-Chlorophenyl phenyl ether	ND		180	3.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
4-Nitroaniline	ND		350	20	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Acenaphthene	16	J	180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Acenaphthylene	ND		180	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Acetophenone	ND		180	9.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Anthracene	39	J	180	4.5	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Atrazine	ND		180	7.9	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Benzaldehyde	ND		180	19	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Benzo(a)anthracene	100	J	180	3.0	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Benzo(a)pyrene	84	J	180	4.3	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Benzo(b)fluoranthene	130	J	180	3.4	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Benzo(g,h,i)perylene	48	J	180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Benzo(k)fluoranthene	49	J	180	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Biphenyl	ND		180	11	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
bis (2-chloroisopropyl) ether	ND		180	18	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Bis(2-chloroethoxy)methane	ND		180	9.6	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Bis(2-chloroethyl)ether	ND		180	15	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Bis(2-ethylhexyl) phthalate	ND		180	57	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Butyl benzyl phthalate	ND	*	180	47	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Caprolactam	ND		180	76	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Carbazole	11	J	180	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Chrysene	130	J	180	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Dibenzofuran	12	J	180	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Diethyl phthalate	ND		180	5.3	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Dimethyl phthalate	ND		180	4.6	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Di-n-butyl phthalate	ND		180	61	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Di-n-octyl phthalate	ND		180	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Fluoranthene	140	J	180	2.6	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Fluorene	15	J	180	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Hexachlorobenzene	ND		180	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Hexachlorobutadiene	ND		180	9.0	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Hexachlorocyclopentadiene	ND		180	53	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Hexachloroethane	ND		180	14	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Indeno(1,2,3-cd)pyrene	77	J	180	4.9	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Isophorone	ND		180	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Naphthalene	12	J	180	2.9	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Nitrobenzene	ND		180	7.8	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
N-Nitrosodiphenylamine	ND		180	9.7	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-9 (2-4)

Lab Sample ID: 480-55676-9

Date Collected: 03/06/14 14:06

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 94.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	150	J	180	3.7	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Pyrene	190		180	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 04:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		39 - 146				03/11/14 08:22	03/12/14 04:57	1
2-Fluorobiphenyl	88		37 - 120				03/11/14 08:22	03/12/14 04:57	1
2-Fluorophenol	75		18 - 120				03/11/14 08:22	03/12/14 04:57	1
Nitrobenzene-d5	92		34 - 132				03/11/14 08:22	03/12/14 04:57	1
Phenol-d5	81		11 - 120				03/11/14 08:22	03/12/14 04:57	1
p-Terphenyl-d14	134		65 - 153				03/11/14 08:22	03/12/14 04:57	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.43	J	1.7	0.34	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
4,4'-DDE	0.81	J	1.7	0.26	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
4,4'-DDT	0.73	J	1.7	0.18	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Aldrin	ND		1.7	0.43	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
alpha-BHC	ND		1.7	0.31	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
alpha-Chlordane	ND		1.7	0.87	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
beta-BHC	0.51	J	1.7	0.19	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
delta-BHC	0.52	J	1.7	0.23	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Dieldrin	ND		1.7	0.42	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Endosulfan I	ND		1.7	0.22	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Endosulfan II	ND		1.7	0.31	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Endosulfan sulfate	ND		1.7	0.32	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Endrin	0.43	J	1.7	0.24	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Endrin aldehyde	ND		1.7	0.44	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Endrin ketone	ND		1.7	0.43	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
gamma-BHC (Lindane)	ND		1.7	0.22	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
gamma-Chlordane	ND		1.7	0.55	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Heptachlor	ND		1.7	0.27	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Heptachlor epoxide	ND		1.7	0.45	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Methoxychlor	0.54	J	1.7	0.24	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Toxaphene	ND		17	10	ug/Kg	☼	03/11/14 08:28	03/11/14 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	145	X	32 - 136				03/11/14 08:28	03/11/14 15:44	1
DCB Decachlorobiphenyl	94		32 - 136				03/11/14 08:28	03/11/14 15:44	1
Tetrachloro-m-xylene	87		30 - 124				03/11/14 08:28	03/11/14 15:44	1
Tetrachloro-m-xylene	77		30 - 124				03/11/14 08:28	03/11/14 15:44	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9710		10.3		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Antimony	ND		15.4		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Arsenic	5.9		2.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Barium	71.6		0.51		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Beryllium	0.45		0.21		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Cadmium	0.24		0.21		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Calcium	33800		51.5		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-9 (2-4)

Lab Sample ID: 480-55676-9

Date Collected: 03/06/14 14:06

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 94.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	12.7		0.51		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Cobalt	8.0		0.51		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Copper	20.1		1.0		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Iron	15300		10.3		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Lead	37.8		1.0		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Magnesium	13800		20.6		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Manganese	432		0.21		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Nickel	19.5		5.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Potassium	2390		30.9		mg/Kg	☼	03/13/14 11:00	03/14/14 16:26	1
Selenium	ND		4.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Silver	ND		0.62		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Sodium	236		144		mg/Kg	☼	03/13/14 11:00	03/14/14 16:26	1
Thallium	ND		6.2		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Vanadium	18.3		0.51		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1
Zinc	70.0		2.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.71		0.020		mg/Kg	☼	03/10/14 07:30	03/10/14 13:05	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-1

Lab Sample ID: 480-55676-10

Date Collected: 03/06/14 13:54

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		14000	3000	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2,4,6-Trichlorophenol	ND		14000	910	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2,4-Dichlorophenol	ND		14000	720	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2,4-Dimethylphenol	ND		14000	3700	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2,4-Dinitrophenol	ND		27000	4800	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2,4-Dinitrotoluene	ND		14000	2100	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2,6-Dinitrotoluene	ND		14000	3400	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2-Chloronaphthalene	ND		14000	920	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2-Chlorophenol	ND		14000	700	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2-Methylnaphthalene	ND		14000	170	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2-Methylphenol	ND		14000	420	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2-Nitroaniline	ND		27000	4400	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
2-Nitrophenol	ND		14000	630	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
3,3'-Dichlorobenzidine	ND		14000	12000	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
3-Nitroaniline	ND		27000	3200	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
4,6-Dinitro-2-methylphenol	ND		27000	4800	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
4-Bromophenyl phenyl ether	ND		14000	4400	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
4-Chloro-3-methylphenol	ND		14000	570	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
4-Chloroaniline	ND		14000	4000	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
4-Chlorophenyl phenyl ether	ND		14000	290	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
4-Methylphenol	ND		27000	770	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
4-Nitroaniline	ND		27000	1500	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
4-Nitrophenol	ND	*	27000	3300	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Acenaphthene	ND		14000	160	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Acenaphthylene	ND		14000	110	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Acetophenone	ND		14000	710	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Anthracene	ND		14000	350	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Atrazine	ND		14000	610	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Benzaldehyde	ND		14000	1500	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Benzo(a)anthracene	ND		14000	240	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Benzo(a)pyrene	ND		14000	330	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Benzo(b)fluoranthene	ND		14000	270	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Benzo(g,h,i)perylene	ND		14000	170	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Benzo(k)fluoranthene	ND		14000	150	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Biphenyl	ND		14000	860	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
bis (2-chloroisopropyl) ether	ND		14000	1400	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Bis(2-chloroethoxy)methane	ND		14000	750	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Bis(2-chloroethyl)ether	ND		14000	1200	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Bis(2-ethylhexyl) phthalate	ND		14000	4400	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Butyl benzyl phthalate	ND	*	14000	3700	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Caprolactam	ND		14000	6000	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Carbazole	ND		14000	160	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Chrysene	ND		14000	140	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Dibenz(a,h)anthracene	ND		14000	160	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Dibenzofuran	ND		14000	140	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Diethyl phthalate	ND		14000	420	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Dimethyl phthalate	ND		14000	360	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Di-n-butyl phthalate	ND		14000	4800	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Di-n-octyl phthalate	ND		14000	320	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-1

Lab Sample ID: 480-55676-10

Date Collected: 03/06/14 13:54

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		14000	200	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Fluorene	ND		14000	320	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Hexachlorobenzene	ND		14000	680	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Hexachlorobutadiene	ND		14000	700	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Hexachlorocyclopentadiene	ND		14000	4200	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Hexachloroethane	ND		14000	1100	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Indeno(1,2,3-cd)pyrene	ND		14000	380	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Isophorone	ND		14000	690	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Naphthalene	ND		14000	230	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Nitrobenzene	ND		14000	610	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
N-Nitrosodi-n-propylamine	ND		14000	1100	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
N-Nitrosodiphenylamine	ND		14000	750	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Pentachlorophenol	ND		27000	4700	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Phenanthrene	ND		14000	290	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Phenol	ND		14000	1500	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20
Pyrene	ND		14000	89	ug/Kg	☼	03/11/14 08:22	03/12/14 05:20	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	0	X	39 - 146	03/11/14 08:22	03/12/14 05:20	20
2-Fluorobiphenyl	110		37 - 120	03/11/14 08:22	03/12/14 05:20	20
2-Fluorophenol	0	X	18 - 120	03/11/14 08:22	03/12/14 05:20	20
Nitrobenzene-d5	117		34 - 132	03/11/14 08:22	03/12/14 05:20	20
Phenol-d5	80		11 - 120	03/11/14 08:22	03/12/14 05:20	20
p-Terphenyl-d14	0	X	65 - 153	03/11/14 08:22	03/12/14 05:20	20

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		170	33	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
4,4'-DDE	35	J	170	25	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
4,4'-DDT	65	J	170	17	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Aldrin	ND		170	41	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
alpha-BHC	ND		170	30	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
alpha-Chlordane	ND		170	83	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
beta-BHC	ND		170	18	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
delta-BHC	39	J B	170	22	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Dieldrin	ND		170	40	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Endosulfan I	ND		170	21	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Endosulfan II	ND		170	30	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Endosulfan sulfate	ND		170	31	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Endrin	ND		170	23	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Endrin aldehyde	ND		170	43	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Endrin ketone	ND		170	41	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
gamma-BHC (Lindane)	ND		170	21	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
gamma-Chlordane	ND		170	53	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Heptachlor	ND		170	26	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Heptachlor epoxide	ND		170	43	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Methoxychlor	ND		170	23	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100
Toxaphene	ND		1700	980	ug/Kg	☼	03/12/14 06:22	03/12/14 11:57	100

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-1

Lab Sample ID: 480-55676-10

Date Collected: 03/06/14 13:54

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 11:57	100
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 11:57	100
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 11:57	100
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 11:57	100

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1100	210	ug/Kg	☼	03/10/14 14:51	03/11/14 17:49	5
PCB-1221	ND		1100	210	ug/Kg	☼	03/10/14 14:51	03/11/14 17:49	5
PCB-1232	ND		1100	210	ug/Kg	☼	03/10/14 14:51	03/11/14 17:49	5
PCB-1242	ND		1100	210	ug/Kg	☼	03/10/14 14:51	03/11/14 17:49	5
PCB-1248	ND		1100	210	ug/Kg	☼	03/10/14 14:51	03/11/14 17:49	5
PCB-1254	ND		1100	500	ug/Kg	☼	03/10/14 14:51	03/11/14 17:49	5
PCB-1260	ND		1100	500	ug/Kg	☼	03/10/14 14:51	03/11/14 17:49	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	115		47 - 176	03/10/14 14:51	03/11/14 17:49	5
DCB Decachlorobiphenyl	120		47 - 176	03/10/14 14:51	03/11/14 17:49	5
Tetrachloro-m-xylene	100		46 - 175	03/10/14 14:51	03/11/14 17:49	5
Tetrachloro-m-xylene	122		46 - 175	03/10/14 14:51	03/11/14 17:49	5

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.4	ug/Kg	☼	03/11/14 14:57	03/14/14 11:38	1
Silvex (2,4,5-TP)	ND		17	6.1	ug/Kg	☼	03/11/14 14:57	03/14/14 11:38	1
2,4-D	ND		17	11	ug/Kg	☼	03/11/14 14:57	03/14/14 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	85		39 - 120	03/11/14 14:57	03/14/14 11:38	1
2,4-Dichlorophenylacetic acid	75		39 - 120	03/11/14 14:57	03/14/14 11:38	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12300		10.4		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Antimony	ND		15.6		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Arsenic	3.7		2.1		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Barium	90.9		0.52		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Beryllium	2.8		0.21		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Cadmium	ND		0.21		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Calcium	196000		260		mg/Kg	☼	03/13/14 11:00	03/14/14 17:19	5
Chromium	14.4		0.52		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Cobalt	0.59		0.52		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Copper	6.5		1.0		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Iron	5350		10.4		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Lead	36.3		1.0		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Magnesium	16400		20.8		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Manganese	1230		0.21		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Nickel	ND		5.2		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Potassium	811		31.2		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Selenium	ND		4.2		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Silver	ND		0.62		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-1

Lab Sample ID: 480-55676-10

Date Collected: 03/06/14 13:54

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.1

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	645		146		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Thallium	ND		6.2		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Vanadium	9.5		0.52		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1
Zinc	17.7		2.1		mg/Kg	☼	03/13/14 11:00	03/14/14 16:29	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020		mg/Kg	☼	03/13/14 11:00	03/13/14 13:33	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-2

Lab Sample ID: 480-55676-11

Date Collected: 03/06/14 14:53

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	37	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2,4,6-Trichlorophenol	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2,4-Dichlorophenol	ND		170	8.9	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2,4-Dimethylphenol	ND		170	46	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2,4-Dinitrophenol	ND		330	59	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2,4-Dinitrotoluene	ND		170	26	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2,6-Dinitrotoluene	ND		170	42	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2-Chloronaphthalene	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2-Chlorophenol	ND		170	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2-Methylnaphthalene	35	J	170	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2-Methylphenol	ND		170	5.2	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2-Nitroaniline	ND		330	55	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
2-Nitrophenol	ND		170	7.8	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
3-Nitroaniline	ND		330	39	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
4,6-Dinitro-2-methylphenol	ND		330	59	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
4-Bromophenyl phenyl ether	ND		170	54	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
4-Chloro-3-methylphenol	ND		170	7.0	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
4-Chloroaniline	ND		170	50	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
4-Methylphenol	ND		330	9.5	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
4-Nitroaniline	ND		330	19	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
4-Nitrophenol	ND	*	330	41	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Acenaphthene	25	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Acenaphthylene	11	J	170	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Acetophenone	11	J	170	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Anthracene	63	J	170	4.4	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Atrazine	ND		170	7.6	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Benzaldehyde	ND		170	19	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Benzo(a)anthracene	340		170	2.9	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Benzo(a)pyrene	350		170	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Benzo(b)fluoranthene	520		170	3.3	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Benzo(g,h,i)perylene	280		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Benzo(k)fluoranthene	210		170	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Biphenyl	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Bis(2-chloroethoxy)methane	ND		170	9.2	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Bis(2-ethylhexyl) phthalate	ND		170	55	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Butyl benzyl phthalate	ND	*	170	46	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Caprolactam	ND		170	74	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Carbazole	43	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Chrysene	400		170	1.7	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Dibenzofuran	18	J	170	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Diethyl phthalate	ND		170	5.1	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Dimethyl phthalate	ND		170	4.4	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Di-n-butyl phthalate	ND		170	59	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Di-n-octyl phthalate	ND		170	4.0	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-2

Lab Sample ID: 480-55676-11

Date Collected: 03/06/14 14:53

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	570		170	2.5	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Fluorene	25	J	170	3.9	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Hexachlorobenzene	ND		170	8.4	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Hexachlorobutadiene	ND		170	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Hexachlorocyclopentadiene	ND		170	51	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Hexachloroethane	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Indeno(1,2,3-cd)pyrene	280		170	4.7	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Isophorone	ND		170	8.5	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Naphthalene	25	J	170	2.8	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Nitrobenzene	ND		170	7.5	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
N-Nitrosodi-n-propylamine	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
N-Nitrosodiphenylamine	ND		170	9.3	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Pentachlorophenol	ND		330	58	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Phenanthrene	350		170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Phenol	ND		170	18	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1
Pyrene	690		170	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 08:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		39 - 146	03/11/14 08:22	03/12/14 08:32	1
2-Fluorobiphenyl	93		37 - 120	03/11/14 08:22	03/12/14 08:32	1
2-Fluorophenol	79		18 - 120	03/11/14 08:22	03/12/14 08:32	1
Nitrobenzene-d5	93		34 - 132	03/11/14 08:22	03/12/14 08:32	1
Phenol-d5	85		11 - 120	03/11/14 08:22	03/12/14 08:32	1
p-Terphenyl-d14	130		65 - 153	03/11/14 08:22	03/12/14 08:32	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		85	17	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
4,4'-DDE	25	J	85	13	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
4,4'-DDT	43	J	85	8.7	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Aldrin	ND		85	21	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
alpha-BHC	ND		85	15	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
alpha-Chlordane	ND		85	42	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
beta-BHC	ND		85	9.2	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
delta-BHC	ND		85	11	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Dieldrin	ND		85	20	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Endosulfan I	ND		85	11	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Endosulfan II	ND		85	15	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Endosulfan sulfate	ND		85	16	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Endrin	ND		85	12	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Endrin aldehyde	ND		85	22	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Endrin ketone	ND		85	21	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
gamma-BHC (Lindane)	ND		85	11	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
gamma-Chlordane	ND		85	27	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Heptachlor	ND		85	13	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Heptachlor epoxide	ND		85	22	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Methoxychlor	ND		85	12	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50
Toxaphene	ND		850	500	ug/Kg	☼	03/12/14 06:22	03/12/14 12:15	50

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-2

Lab Sample ID: 480-55676-11

Date Collected: 03/06/14 14:53

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 12:15	50
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 12:15	50
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 12:15	50
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 12:15	50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		220	43	ug/Kg	☼	03/10/14 14:51	03/11/14 19:03	1
PCB-1221	ND		220	43	ug/Kg	☼	03/10/14 14:51	03/11/14 19:03	1
PCB-1232	ND		220	43	ug/Kg	☼	03/10/14 14:51	03/11/14 19:03	1
PCB-1242	ND		220	43	ug/Kg	☼	03/10/14 14:51	03/11/14 19:03	1
PCB-1248	ND		220	43	ug/Kg	☼	03/10/14 14:51	03/11/14 19:03	1
PCB-1254	ND		220	100	ug/Kg	☼	03/10/14 14:51	03/11/14 19:03	1
PCB-1260	ND		220	100	ug/Kg	☼	03/10/14 14:51	03/11/14 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	109		47 - 176	03/10/14 14:51	03/11/14 19:03	1
DCB Decachlorobiphenyl	104		47 - 176	03/10/14 14:51	03/11/14 19:03	1
Tetrachloro-m-xylene	103		46 - 175	03/10/14 14:51	03/11/14 19:03	1
Tetrachloro-m-xylene	106		46 - 175	03/10/14 14:51	03/11/14 19:03	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.5	ug/Kg	☼	03/11/14 14:57	03/14/14 12:08	1
Silvex (2,4,5-TP)	ND		17	6.1	ug/Kg	☼	03/11/14 14:57	03/14/14 12:08	1
2,4-D	ND		17	11	ug/Kg	☼	03/11/14 14:57	03/14/14 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	81		39 - 120	03/11/14 14:57	03/14/14 12:08	1
2,4-Dichlorophenylacetic acid	82		39 - 120	03/11/14 14:57	03/14/14 12:08	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2990		9.6		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Antimony	ND		14.3		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Arsenic	3.9		1.9		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Barium	32.7		0.48		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Beryllium	0.39		0.19		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Cadmium	0.33		0.19		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Calcium	169000		239		mg/Kg	☼	03/13/14 11:00	03/14/14 17:33	5
Chromium	91.1		0.48		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Cobalt	1.5		0.48		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Copper	11.6		0.96		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Iron	13200		9.6		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Lead	78.3		0.96		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Magnesium	14000		19.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Manganese	1650		0.19		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Nickel	9.2		4.8		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Potassium	590		28.7		mg/Kg	☼	03/13/14 11:00	03/14/14 16:52	1
Selenium	ND		3.8		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Silver	ND		0.57		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-2

Lab Sample ID: 480-55676-11

Date Collected: 03/06/14 14:53

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	289		134		mg/Kg	☼	03/13/14 11:00	03/14/14 16:52	1
Thallium	ND		5.7		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Vanadium	29.6		0.48		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1
Zinc	36.3		1.9		mg/Kg	☼	03/13/14 11:00	03/14/14 05:25	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018		mg/Kg	☼	03/10/14 07:30	03/10/14 13:15	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: Blind Dup #1

Lab Sample ID: 480-55676-12

Date Collected: 03/06/14 13:00

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	37	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2,4,6-Trichlorophenol	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2,4-Dichlorophenol	ND		170	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2,4-Dimethylphenol	ND		170	46	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2,4-Dinitrophenol	ND		330	59	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2,4-Dinitrotoluene	ND		170	26	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2,6-Dinitrotoluene	ND		170	41	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2-Chloronaphthalene	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2-Chlorophenol	ND		170	8.6	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2-Methylnaphthalene	38	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2-Methylphenol	ND		170	5.2	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2-Nitroaniline	ND		330	54	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
2-Nitrophenol	ND		170	7.7	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
3-Nitroaniline	ND		330	39	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
4,6-Dinitro-2-methylphenol	ND		330	58	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
4-Bromophenyl phenyl ether	ND		170	54	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
4-Chloro-3-methylphenol	ND		170	6.9	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
4-Chloroaniline	ND		170	50	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
4-Methylphenol	ND		330	9.4	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
4-Nitroaniline	ND		330	19	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
4-Nitrophenol	ND	*	330	41	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Acenaphthene	29	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Acenaphthylene	11	J	170	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Acetophenone	10	J	170	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Anthracene	73	J	170	4.3	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Atrazine	ND		170	7.5	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Benzaldehyde	ND		170	19	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Benzo(a)anthracene	320		170	2.9	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Benzo(a)pyrene	300		170	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Benzo(b)fluoranthene	480		170	3.3	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Benzo(g,h,i)perylene	260		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Benzo(k)fluoranthene	220		170	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Biphenyl	ND		170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Bis(2-chloroethoxy)methane	ND		170	9.2	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Bis(2-ethylhexyl) phthalate	170		170	54	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Butyl benzyl phthalate	ND	*	170	45	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Caprolactam	ND		170	73	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Carbazole	48	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Chrysene	370		170	1.7	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Dibenzofuran	21	J	170	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Diethyl phthalate	ND		170	5.1	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Dimethyl phthalate	ND		170	4.4	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Di-n-butyl phthalate	ND		170	58	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Di-n-octyl phthalate	ND		170	3.9	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: Blind Dup #1

Lab Sample ID: 480-55676-12

Date Collected: 03/06/14 13:00

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	540		170	2.4	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Fluorene	27	J	170	3.9	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Hexachlorobenzene	ND		170	8.4	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Hexachlorobutadiene	ND		170	8.6	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Hexachlorocyclopentadiene	ND		170	51	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Hexachloroethane	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Indeno(1,2,3-cd)pyrene	270		170	4.7	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Isophorone	ND		170	8.4	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Naphthalene	30	J	170	2.8	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Nitrobenzene	ND		170	7.5	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
N-Nitrosodi-n-propylamine	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
N-Nitrosodiphenylamine	ND		170	9.2	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Pentachlorophenol	ND		330	58	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Phenanthrene	390		170	3.5	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Phenol	ND		170	18	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1
Pyrene	700		170	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 08:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	82		39 - 146	03/11/14 08:22	03/12/14 08:55	1
2-Fluorobiphenyl	91		37 - 120	03/11/14 08:22	03/12/14 08:55	1
2-Fluorophenol	77		18 - 120	03/11/14 08:22	03/12/14 08:55	1
Nitrobenzene-d5	93		34 - 132	03/11/14 08:22	03/12/14 08:55	1
Phenol-d5	84		11 - 120	03/11/14 08:22	03/12/14 08:55	1
p-Terphenyl-d14	129		65 - 153	03/11/14 08:22	03/12/14 08:55	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		84	16	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
4,4'-DDE	31	J	84	13	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
4,4'-DDT	53	J	84	8.6	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Aldrin	ND		84	21	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
alpha-BHC	ND		84	15	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
alpha-Chlordane	ND		84	42	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
beta-BHC	ND		84	9.1	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
delta-BHC	ND		84	11	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Dieldrin	ND		84	20	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Endosulfan I	ND		84	11	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Endosulfan II	ND		84	15	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Endosulfan sulfate	ND		84	16	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Endrin	ND		84	12	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Endrin aldehyde	ND		84	22	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Endrin ketone	ND		84	21	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
gamma-BHC (Lindane)	ND		84	10	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
gamma-Chlordane	ND		84	27	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Heptachlor	ND		84	13	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Heptachlor epoxide	ND		84	22	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Methoxychlor	ND		84	12	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50
Toxaphene	ND		840	490	ug/Kg	☼	03/12/14 06:22	03/12/14 12:32	50

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: Blind Dup #1

Date Collected: 03/06/14 13:00

Date Received: 03/07/14 11:20

Lab Sample ID: 480-55676-12

Matrix: Solid

Percent Solids: 97.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 12:32	50
DCB Decachlorobiphenyl	0	X	32 - 136	03/12/14 06:22	03/12/14 12:32	50
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 12:32	50
Tetrachloro-m-xylene	0	X	30 - 124	03/12/14 06:22	03/12/14 12:32	50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 19:18	1
PCB-1221	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 19:18	1
PCB-1232	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 19:18	1
PCB-1242	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 19:18	1
PCB-1248	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 19:18	1
PCB-1254	240		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 19:18	1
PCB-1260	ND		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	113		47 - 176	03/10/14 14:51	03/11/14 19:18	1
DCB Decachlorobiphenyl	108		47 - 176	03/10/14 14:51	03/11/14 19:18	1
Tetrachloro-m-xylene	106		46 - 175	03/10/14 14:51	03/11/14 19:18	1
Tetrachloro-m-xylene	109		46 - 175	03/10/14 14:51	03/11/14 19:18	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.4	ug/Kg	☼	03/11/14 14:57	03/14/14 12:38	1
Silvex (2,4,5-TP)	ND		17	6.1	ug/Kg	☼	03/11/14 14:57	03/14/14 12:38	1
2,4-D	ND		17	11	ug/Kg	☼	03/11/14 14:57	03/14/14 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	92		39 - 120	03/11/14 14:57	03/14/14 12:38	1
2,4-Dichlorophenylacetic acid	97		39 - 120	03/11/14 14:57	03/14/14 12:38	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2680		10.9		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Antimony	ND		16.3		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Arsenic	5.4		2.2		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Barium	27.8		0.54		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Beryllium	0.43		0.22		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Cadmium	0.39		0.22		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Calcium	234000		272		mg/Kg	☼	03/13/14 11:00	03/14/14 17:36	5
Chromium	144		0.54		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Cobalt	2.0		0.54		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Copper	18.0		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Iron	30500		10.9		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Lead	217		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Magnesium	5520		21.7		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Manganese	2820		0.22		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Nickel	12.6		5.4		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Potassium	399		32.6		mg/Kg	☼	03/13/14 11:00	03/14/14 16:55	1
Selenium	ND		4.3		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Silver	ND		0.65		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: Blind Dup #1

Lab Sample ID: 480-55676-12

Date Collected: 03/06/14 13:00

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.8

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	247		152		mg/Kg	☼	03/13/14 11:00	03/14/14 16:55	1
Thallium	ND		6.5		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Vanadium	43.2		0.54		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1
Zinc	29.9		2.2		mg/Kg	☼	03/13/14 11:00	03/14/14 05:28	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020		mg/Kg	☼	03/10/14 07:30	03/10/14 13:17	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-3

Lab Sample ID: 480-55676-13

Date Collected: 03/06/14 15:52

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		3500	530	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
2,6-Dinitrotoluene	ND		3500	840	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
2-Chloronaphthalene	ND		3500	230	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
2-Methylnaphthalene	2100	J	3500	42	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
2-Nitroaniline	ND		6700	1100	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
3,3'-Dichlorobenzidine	ND		3500	3000	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
3-Nitroaniline	ND		6700	790	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
4-Bromophenyl phenyl ether	ND		3500	1100	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
4-Chloroaniline	ND		3500	1000	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
4-Chlorophenyl phenyl ether	ND		3500	73	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
4-Nitroaniline	ND		6700	380	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Acenaphthene	4900		3500	40	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Acenaphthylene	ND		3500	28	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Acetophenone	ND		3500	180	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Anthracene	11000		3500	88	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Atrazine	ND		3500	150	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Benzaldehyde	ND		3500	380	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Benzo(a)anthracene	22000		3500	59	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Benzo(a)pyrene	19000		3500	83	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Benzo(b)fluoranthene	26000		3500	67	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Benzo(g,h,i)perylene	10000		3500	41	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Benzo(k)fluoranthene	12000		3500	38	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Biphenyl	500	J	3500	210	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
bis (2-chloroisopropyl) ether	ND		3500	360	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Bis(2-chloroethoxy)methane	ND		3500	190	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Bis(2-chloroethyl)ether	ND		3500	300	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Bis(2-ethylhexyl) phthalate	ND		3500	1100	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Butyl benzyl phthalate	ND	*	3500	920	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Caprolactam	ND		3500	1500	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Carbazole	6100		3500	40	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Chrysene	21000		3500	34	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Dibenz(a,h)anthracene	ND		3500	40	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Dibenzofuran	4300		3500	36	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Diethyl phthalate	ND		3500	100	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Dimethyl phthalate	ND		3500	90	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Di-n-butyl phthalate	ND		3500	1200	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Di-n-octyl phthalate	ND		3500	80	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Fluoranthene	47000		3500	50	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Fluorene	6000		3500	79	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Hexachlorobenzene	ND		3500	170	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Hexachlorobutadiene	ND		3500	180	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Hexachlorocyclopentadiene	ND		3500	1000	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Hexachloroethane	ND		3500	270	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Indeno(1,2,3-cd)pyrene	12000		3500	95	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Isophorone	ND		3500	170	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Naphthalene	4900		3500	57	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Nitrobenzene	ND		3500	150	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
N-Nitrosodi-n-propylamine	ND		3500	270	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
N-Nitrosodiphenylamine	ND		3500	190	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-3

Lab Sample ID: 480-55676-13

Date Collected: 03/06/14 15:52

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	51000		3500	72	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Pyrene	51000		3500	22	ug/Kg	☼	03/11/14 08:22	03/12/14 09:19	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		39 - 146				03/11/14 08:22	03/12/14 09:19	20
2-Fluorobiphenyl	83		37 - 120				03/11/14 08:22	03/12/14 09:19	20
2-Fluorophenol	73		18 - 120				03/11/14 08:22	03/12/14 09:19	20
Nitrobenzene-d5	88		34 - 132				03/11/14 08:22	03/12/14 09:19	20
Phenol-d5	75		11 - 120				03/11/14 08:22	03/12/14 09:19	20
p-Terphenyl-d14	113		65 - 153				03/11/14 08:22	03/12/14 09:19	20

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		87	17	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
4,4'-DDE	32	J	87	13	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
4,4'-DDT	85	J	87	8.8	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Aldrin	ND		87	21	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
alpha-BHC	ND		87	16	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
alpha-Chlordane	ND		87	43	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
beta-BHC	ND		87	9.3	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
delta-BHC	ND		87	11	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Dieldrin	ND		87	21	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Endosulfan I	ND		87	11	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Endosulfan II	ND		87	16	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Endosulfan sulfate	ND		87	16	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Endrin	ND		87	12	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Endrin aldehyde	ND		87	22	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Endrin ketone	29	J	87	21	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
gamma-BHC (Lindane)	31	J	87	11	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
gamma-Chlordane	ND		87	27	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Heptachlor	ND		87	14	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Heptachlor epoxide	ND		87	22	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Methoxychlor	41	J	87	12	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Toxaphene	ND		870	500	ug/Kg	☼	03/12/14 06:22	03/12/14 13:25	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X	32 - 136				03/12/14 06:22	03/12/14 13:25	50
DCB Decachlorobiphenyl	0	X	32 - 136				03/12/14 06:22	03/12/14 13:25	50
Tetrachloro-m-xylene	0	X	30 - 124				03/12/14 06:22	03/12/14 13:25	50
Tetrachloro-m-xylene	0	X	30 - 124				03/12/14 06:22	03/12/14 13:25	50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 19:33	1
PCB-1221	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 19:33	1
PCB-1232	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 19:33	1
PCB-1242	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 19:33	1
PCB-1248	ND		230	45	ug/Kg	☼	03/10/14 14:51	03/11/14 19:33	1
PCB-1254	ND		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 19:33	1
PCB-1260	ND		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 19:33	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-3

Lab Sample ID: 480-55676-13

Date Collected: 03/06/14 15:52

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		47 - 176	03/10/14 14:51	03/11/14 19:33	1
DCB Decachlorobiphenyl	198	X	47 - 176	03/10/14 14:51	03/11/14 19:33	1
Tetrachloro-m-xylene	90		46 - 175	03/10/14 14:51	03/11/14 19:33	1
Tetrachloro-m-xylene	105		46 - 175	03/10/14 14:51	03/11/14 19:33	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10600		11.4		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Antimony	ND		17.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Arsenic	7.2		2.3		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Barium	140		0.57		mg/Kg	☼	03/13/14 11:00	03/14/14 16:58	1
Beryllium	1.7		0.23		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Cadmium	0.79		0.23		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Calcium	89900		57.0		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Chromium	20.1		0.57		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Cobalt	2.4		0.57		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Copper	46.4		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Iron	10500		11.4		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Lead	116		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Magnesium	13900		22.8		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Manganese	1310		0.23		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Nickel	12.4		5.7		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Potassium	914		34.2		mg/Kg	☼	03/13/14 11:00	03/14/14 16:58	1
Selenium	ND		4.6		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Silver	ND		0.68		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Sodium	337		160		mg/Kg	☼	03/13/14 11:00	03/14/14 16:58	1
Thallium	ND		6.8		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Vanadium	18.9		0.57		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1
Zinc	125		2.3		mg/Kg	☼	03/13/14 11:00	03/14/14 05:40	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.019		mg/Kg	☼	03/10/14 07:30	03/10/14 13:19	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: HC-1 (0.3-1.4)

Lab Sample ID: 480-55676-14

Date Collected: 03/05/14 12:20

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 19:47	1
PCB-1221	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 19:47	1
PCB-1232	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 19:47	1
PCB-1242	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 19:47	1
PCB-1248	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 19:47	1
PCB-1254	ND		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 19:47	1
PCB-1260	ND		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		47 - 176	03/10/14 14:51	03/11/14 19:47	1
DCB Decachlorobiphenyl	106		47 - 176	03/10/14 14:51	03/11/14 19:47	1
Tetrachloro-m-xylene	105		46 - 175	03/10/14 14:51	03/11/14 19:47	1
Tetrachloro-m-xylene	108		46 - 175	03/10/14 14:51	03/11/14 19:47	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: HC-2 (0.4-2.0)

Lab Sample ID: 480-55676-15

Date Collected: 03/05/14 12:48

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 20:02	1
PCB-1221	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 20:02	1
PCB-1232	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 20:02	1
PCB-1242	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 20:02	1
PCB-1248	ND		230	44	ug/Kg	☼	03/10/14 14:51	03/11/14 20:02	1
PCB-1254	ND		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 20:02	1
PCB-1260	ND		230	110	ug/Kg	☼	03/10/14 14:51	03/11/14 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	113		47 - 176	03/10/14 14:51	03/11/14 20:02	1
DCB Decachlorobiphenyl	108		47 - 176	03/10/14 14:51	03/11/14 20:02	1
Tetrachloro-m-xylene	104		46 - 175	03/10/14 14:51	03/11/14 20:02	1
Tetrachloro-m-xylene	110		46 - 175	03/10/14 14:51	03/11/14 20:02	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: HC-4 (0.7-2.0)

Lab Sample ID: 480-55676-16

Date Collected: 03/05/14 14:49

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		170	27	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
2,6-Dinitrotoluene	ND		170	42	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
2-Chloronaphthalene	ND		170	12	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
2-Methylnaphthalene	65	J	170	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
2-Nitroaniline	ND		340	55	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
3-Nitroaniline	ND		340	39	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
4-Bromophenyl phenyl ether	ND		170	55	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
4-Chloroaniline	ND		170	50	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
4-Chlorophenyl phenyl ether	ND		170	3.7	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
4-Nitroaniline	ND		340	19	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Acenaphthene	45	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Acenaphthylene	19	J	170	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Acetophenone	ND		170	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Anthracene	89	J	170	4.4	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Atrazine	ND		170	7.6	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Benzaldehyde	ND		170	19	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Benzo(a)anthracene	260		170	3.0	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Benzo(a)pyrene	240		170	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Benzo(b)fluoranthene	320		170	3.3	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Benzo(g,h,i)perylene	180		170	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Benzo(k)fluoranthene	150	J	170	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Biphenyl	11	J	170	11	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Bis(2-chloroethoxy)methane	ND		170	9.3	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Bis(2-ethylhexyl) phthalate	ND		170	55	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Butyl benzyl phthalate	ND	*	170	46	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Caprolactam	ND		170	74	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Carbazole	42	J	170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Chrysene	320		170	1.7	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Dibenzofuran	41	J	170	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Diethyl phthalate	8.3	J	170	5.2	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Dimethyl phthalate	ND		170	4.5	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Di-n-butyl phthalate	ND		170	59	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Di-n-octyl phthalate	ND		170	4.0	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Fluoranthene	460		170	2.5	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Fluorene	40	J	170	4.0	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Hexachlorobenzene	ND		170	8.5	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Hexachlorobutadiene	ND		170	8.8	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Hexachlorocyclopentadiene	ND		170	52	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Hexachloroethane	ND		170	13	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Indeno(1,2,3-cd)pyrene	180		170	4.7	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Isophorone	ND		170	8.6	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Naphthalene	41	J	170	2.9	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Nitrobenzene	ND		170	7.6	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
N-Nitrosodi-n-propylamine	ND		170	14	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
N-Nitrosodiphenylamine	ND		170	9.4	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: HC-4 (0.7-2.0)

Lab Sample ID: 480-55676-16

Date Collected: 03/05/14 14:49

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	500		170	3.6	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Pyrene	620		170	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 09:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	102		39 - 146				03/11/14 08:22	03/12/14 09:42	1
2-Fluorobiphenyl	90		37 - 120				03/11/14 08:22	03/12/14 09:42	1
2-Fluorophenol	76		18 - 120				03/11/14 08:22	03/12/14 09:42	1
Nitrobenzene-d5	94		34 - 132				03/11/14 08:22	03/12/14 09:42	1
Phenol-d5	84		11 - 120				03/11/14 08:22	03/12/14 09:42	1
p-Terphenyl-d14	131		65 - 153				03/11/14 08:22	03/12/14 09:42	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		2.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:43	1
Barium	91.3		0.53		mg/Kg	☼	03/13/14 11:00	03/14/14 17:01	1
Cadmium	0.22		0.21		mg/Kg	☼	03/13/14 11:00	03/14/14 05:43	1
Chromium	12.0		0.53		mg/Kg	☼	03/13/14 11:00	03/14/14 05:43	1
Lead	225		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:43	1
Selenium	ND		4.3		mg/Kg	☼	03/13/14 11:00	03/14/14 05:43	1
Silver	ND		0.64		mg/Kg	☼	03/13/14 11:00	03/14/14 05:43	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50		0.021		mg/Kg	☼	03/10/14 07:30	03/10/14 13:24	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: HC-5 (0.4-1.7)

Lab Sample ID: 480-55676-17

Date Collected: 03/05/14 15:20

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		180	27	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
2,6-Dinitrotoluene	ND		180	43	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
2-Methylnaphthalene	45	J	180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
2-Nitroaniline	ND		340	56	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
3,3'-Dichlorobenzidine	ND		180	150	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
3-Nitroaniline	ND		340	40	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
4-Bromophenyl phenyl ether	ND		180	55	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
4-Chloroaniline	ND		180	51	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
4-Chlorophenyl phenyl ether	ND		180	3.7	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
4-Nitroaniline	ND		340	19	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Acenaphthene	74	J	180	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Acenaphthylene	26	J	180	1.4	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Acetophenone	ND		180	8.9	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Anthracene	140	J	180	4.5	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Atrazine	ND		180	7.8	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Benzaldehyde	ND		180	19	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Benzo(a)anthracene	400		180	3.0	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Benzo(a)pyrene	360		180	4.2	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Benzo(b)fluoranthene	450		180	3.4	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Benzo(g,h,i)perylene	230		180	2.1	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Benzo(k)fluoranthene	200		180	1.9	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Biphenyl	ND		180	11	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
bis (2-chloroisopropyl) ether	ND		180	18	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Bis(2-chloroethoxy)methane	ND		180	9.5	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Bis(2-chloroethyl)ether	ND		180	15	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Bis(2-ethylhexyl) phthalate	ND		180	56	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Butyl benzyl phthalate	ND	*	180	47	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Caprolactam	ND		180	75	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Carbazole	60	J	180	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Chrysene	430		180	1.7	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Dibenz(a,h)anthracene	ND		180	2.0	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Dibenzofuran	62	J	180	1.8	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Diethyl phthalate	ND		180	5.3	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Dimethyl phthalate	ND		180	4.5	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Di-n-butyl phthalate	ND		180	60	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Di-n-octyl phthalate	ND		180	4.1	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Fluoranthene	670		180	2.5	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Fluorene	70	J	180	4.0	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Hexachlorobenzene	ND		180	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Hexachlorobutadiene	ND		180	8.9	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Hexachlorocyclopentadiene	ND		180	53	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Hexachloroethane	ND		180	13	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Indeno(1,2,3-cd)pyrene	230		180	4.8	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Isophorone	ND		180	8.7	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Naphthalene	44	J	180	2.9	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Nitrobenzene	ND		180	7.7	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
N-Nitrosodiphenylamine	ND		180	9.5	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: HC-5 (0.4-1.7)

Lab Sample ID: 480-55676-17

Date Collected: 03/05/14 15:20

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	750		180	3.7	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Pyrene	880		180	1.1	ug/Kg	☼	03/11/14 08:22	03/12/14 10:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		39 - 146				03/11/14 08:22	03/12/14 10:05	1
2-Fluorobiphenyl	92		37 - 120				03/11/14 08:22	03/12/14 10:05	1
2-Fluorophenol	79		18 - 120				03/11/14 08:22	03/12/14 10:05	1
Nitrobenzene-d5	95		34 - 132				03/11/14 08:22	03/12/14 10:05	1
Phenol-d5	86		11 - 120				03/11/14 08:22	03/12/14 10:05	1
p-Terphenyl-d14	135		65 - 153				03/11/14 08:22	03/12/14 10:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10.7		2.3		mg/Kg	☼	03/13/14 11:00	03/14/14 05:46	1
Barium	78.5		0.57		mg/Kg	☼	03/13/14 11:00	03/14/14 17:04	1
Cadmium	ND		0.23		mg/Kg	☼	03/13/14 11:00	03/14/14 05:46	1
Chromium	7.9		0.57		mg/Kg	☼	03/13/14 11:00	03/14/14 05:46	1
Lead	157		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:46	1
Selenium	ND		4.6		mg/Kg	☼	03/13/14 11:00	03/14/14 05:46	1
Silver	ND		0.69		mg/Kg	☼	03/13/14 11:00	03/14/14 05:46	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.3		0.19		mg/Kg	☼	03/10/14 07:30	03/10/14 13:51	10

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: HC-6 (0.3-2.0)

Lab Sample ID: 480-55676-18

Date Collected: 03/05/14 15:50

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 98.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		1700	260	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
2,6-Dinitrotoluene	ND		1700	420	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
2-Chloronaphthalene	ND		1700	110	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
2-Methylnaphthalene	640	J	1700	21	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
2-Nitroaniline	ND		3300	540	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
3,3'-Dichlorobenzidine	ND		1700	1500	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
3-Nitroaniline	ND		3300	390	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
4-Bromophenyl phenyl ether	ND		1700	540	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
4-Chloroaniline	ND		1700	500	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
4-Chlorophenyl phenyl ether	ND		1700	36	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
4-Nitroaniline	ND		3300	190	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Acenaphthene	ND		1700	20	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Acenaphthylene	ND		1700	14	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Acetophenone	ND		1700	87	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Anthracene	ND		1700	43	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Atrazine	ND		1700	76	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Benzaldehyde	ND		1700	190	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Benzo(a)anthracene	ND		1700	29	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Benzo(a)pyrene	ND		1700	41	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Benzo(b)fluoranthene	ND		1700	33	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Benzo(g,h,i)perylene	ND		1700	20	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Benzo(k)fluoranthene	ND		1700	19	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Biphenyl	130	J	1700	110	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
bis (2-chloroisopropyl) ether	ND		1700	180	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Bis(2-chloroethoxy)methane	ND		1700	92	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Bis(2-chloroethyl)ether	ND		1700	150	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Bis(2-ethylhexyl) phthalate	ND		1700	550	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Butyl benzyl phthalate	ND	*	1700	460	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Caprolactam	ND		1700	730	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Carbazole	ND		1700	20	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Chrysene	ND		1700	17	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Dibenz(a,h)anthracene	ND		1700	20	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Dibenzofuran	62	J	1700	18	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Diethyl phthalate	ND		1700	51	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Dimethyl phthalate	ND		1700	44	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Di-n-butyl phthalate	ND		1700	590	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Di-n-octyl phthalate	ND		1700	40	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Fluoranthene	120	J	1700	25	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Fluorene	ND		1700	39	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Hexachlorobenzene	ND		1700	84	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Hexachlorobutadiene	ND		1700	87	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Hexachlorocyclopentadiene	ND		1700	510	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Hexachloroethane	ND		1700	130	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Indeno(1,2,3-cd)pyrene	ND		1700	47	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Isophorone	ND		1700	85	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Naphthalene	260	J	1700	28	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Nitrobenzene	ND		1700	75	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
N-Nitrosodi-n-propylamine	ND		1700	130	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
N-Nitrosodiphenylamine	ND		1700	93	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: HC-6 (0.3-2.0)

Lab Sample ID: 480-55676-18

Date Collected: 03/05/14 15:50

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 98.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	180	J	1700	36	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Pyrene	200	J	1700	11	ug/Kg	☼	03/11/14 08:22	03/12/14 10:28	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		39 - 146				03/11/14 08:22	03/12/14 10:28	10
2-Fluorobiphenyl	82		37 - 120				03/11/14 08:22	03/12/14 10:28	10
2-Fluorophenol	67		18 - 120				03/11/14 08:22	03/12/14 10:28	10
Nitrobenzene-d5	82		34 - 132				03/11/14 08:22	03/12/14 10:28	10
Phenol-d5	76		11 - 120				03/11/14 08:22	03/12/14 10:28	10
p-Terphenyl-d14	116		65 - 153				03/11/14 08:22	03/12/14 10:28	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		2.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:49	1
Barium	199		0.53		mg/Kg	☼	03/13/14 11:00	03/14/14 17:16	1
Cadmium	0.48		0.21		mg/Kg	☼	03/13/14 11:00	03/14/14 05:49	1
Chromium	2.0		0.53		mg/Kg	☼	03/13/14 11:00	03/14/14 05:49	1
Lead	189		1.1		mg/Kg	☼	03/13/14 11:00	03/14/14 05:49	1
Selenium	ND		4.2		mg/Kg	☼	03/13/14 11:00	03/14/14 05:49	1
Silver	ND		0.63		mg/Kg	☼	03/13/14 11:00	03/14/14 05:49	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.7		0.21		mg/Kg	☼	03/10/14 07:30	03/10/14 13:53	10

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-1 (2-4)

Date Collected: 03/06/14 10:31

Date Received: 03/07/14 11:20

Lab Sample ID: 480-55676-1

Matrix: Solid

Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			169175	03/07/14 19:43	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	169249	03/10/14 03:34	CDC	TAL BUF
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169629	03/12/14 00:52	RMM	TAL BUF
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF
Total/NA	Analysis	8082A		1	169501	03/11/14 16:21	JMM	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 04:39	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:06	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		1	169415	03/10/14 12:42	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: SB-2 (4-6)

Date Collected: 03/06/14 09:57

Date Received: 03/07/14 11:20

Lab Sample ID: 480-55676-2

Matrix: Solid

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			169175	03/07/14 19:43	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	169249	03/10/14 04:00	CDC	TAL BUF
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169629	03/12/14 01:16	RMM	TAL BUF
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF
Total/NA	Analysis	8082A		1	169501	03/11/14 16:35	JMM	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 04:41	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:09	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		1	169415	03/10/14 12:45	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: SB-3 (2-4)

Date Collected: 03/06/14 11:55

Date Received: 03/07/14 11:20

Lab Sample ID: 480-55676-3

Matrix: Solid

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			169175	03/07/14 19:43	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	169249	03/10/14 04:25	CDC	TAL BUF
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169629	03/12/14 01:39	RMM	TAL BUF
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-3 (2-4)

Date Collected: 03/06/14 11:55

Date Received: 03/07/14 11:20

Lab Sample ID: 480-55676-3

Matrix: Solid

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		1	169501	03/11/14 16:50	JMM	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 04:44	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:12	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		5	169415	03/10/14 13:48	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: SB-4 (0.5-4.0)

Date Collected: 03/06/14 11:08

Date Received: 03/07/14 11:20

Lab Sample ID: 480-55676-4

Matrix: Solid

Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			169175	03/07/14 19:43	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	169249	03/10/14 04:51	CDC	TAL BUF
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169629	03/12/14 02:02	RMM	TAL BUF
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF
Total/NA	Analysis	8082A		1	169501	03/11/14 17:05	JMM	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 04:47	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:15	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		1	169415	03/10/14 12:49	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: SB-5 (4-6)

Date Collected: 03/06/14 15:38

Date Received: 03/07/14 11:20

Lab Sample ID: 480-55676-5

Matrix: Solid

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			169176	03/07/14 20:03	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	169982	03/14/14 01:02	GTG	TAL BUF
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169629	03/12/14 02:26	RMM	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-6 (5-7)

Date Collected: 03/06/14 15:06

Date Received: 03/07/14 11:20

Lab Sample ID: 480-55676-6

Matrix: Solid

Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169629	03/12/14 02:49	RMM	TAL BUF
Total/NA	Prep	3550C	DL		169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D	DL	5	169690	03/12/14 12:01	RMM	TAL BUF
Total/NA	Prep	3550C			169695	03/12/14 06:22	TRG	TAL BUF
Total/NA	Analysis	8081B		20	169728	03/12/14 11:04	LMW	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 04:50	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:17	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		1	169415	03/10/14 12:50	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: SB-7 (2-4)

Date Collected: 03/06/14 14:11

Date Received: 03/07/14 11:20

Lab Sample ID: 480-55676-7

Matrix: Solid

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			169175	03/07/14 19:43	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	169249	03/10/14 05:43	CDC	TAL BUF
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169629	03/12/14 04:11	RMM	TAL BUF
Total/NA	Prep	3550C			169695	03/12/14 06:22	TRG	TAL BUF
Total/NA	Analysis	8081B		20	169728	03/12/14 11:22	LMW	TAL BUF
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF
Total/NA	Analysis	8082A		1	169501	03/11/14 17:20	JMM	TAL BUF
Total/NA	Prep	8151A			169617	03/11/14 14:57	JRL	TAL BUF
Total/NA	Analysis	8151A		1	170053	03/14/14 10:39	DGB	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 04:53	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:20	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		1	169415	03/10/14 12:52	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: SB-8 (6-8)

Date Collected: 03/06/14 15:00

Date Received: 03/07/14 11:20

Lab Sample ID: 480-55676-8

Matrix: Solid

Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			169175	03/07/14 19:43	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SB-8 (6-8)

Lab Sample ID: 480-55676-8

Date Collected: 03/06/14 15:00

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	169249	03/10/14 06:09	CDC	TAL BUF
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169629	03/12/14 04:34	RMM	TAL BUF
Total/NA	Prep	3550C			169695	03/12/14 06:22	TRG	TAL BUF
Total/NA	Analysis	8081B		20	169728	03/12/14 11:39	LMW	TAL BUF
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF
Total/NA	Analysis	8082A		5	169501	03/11/14 17:35	JMM	TAL BUF
Total/NA	Prep	8151A			169617	03/11/14 14:57	JRL	TAL BUF
Total/NA	Analysis	8151A		1	170053	03/14/14 11:09	DGB	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 05:05	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:23	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		1	169415	03/10/14 13:03	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: SB-9 (2-4)

Lab Sample ID: 480-55676-9

Date Collected: 03/06/14 14:06

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169629	03/12/14 04:57	RMM	TAL BUF
Total/NA	Prep	3550C			169511	03/11/14 08:28	CAM	TAL BUF
Total/NA	Analysis	8081B		1	169530	03/11/14 15:44	LMW	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 05:07	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:26	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		1	169415	03/10/14 13:05	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: SS-1

Lab Sample ID: 480-55676-10

Date Collected: 03/06/14 13:54

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		20	169629	03/12/14 05:20	RMM	TAL BUF
Total/NA	Prep	3550C			169695	03/12/14 06:22	TRG	TAL BUF
Total/NA	Analysis	8081B		100	169728	03/12/14 11:57	LMW	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: SS-1

Lab Sample ID: 480-55676-10

Date Collected: 03/06/14 13:54

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF
Total/NA	Analysis	8082A		5	169501	03/11/14 17:49	JMM	TAL BUF
Total/NA	Prep	8151A			169617	03/11/14 14:57	JRL	TAL BUF
Total/NA	Analysis	8151A		1	170053	03/14/14 11:38	DGB	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:29	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		5	170389	03/14/14 17:19	LMH	TAL BUF
Total/NA	Prep	7471B			169862	03/13/14 11:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	169936	03/13/14 13:33	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: SS-2

Lab Sample ID: 480-55676-11

Date Collected: 03/06/14 14:53

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169690	03/12/14 08:32	RMM	TAL BUF
Total/NA	Prep	3550C			169695	03/12/14 06:22	TRG	TAL BUF
Total/NA	Analysis	8081B		50	169728	03/12/14 12:15	LMW	TAL BUF
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF
Total/NA	Analysis	8082A		1	169501	03/11/14 19:03	JMM	TAL BUF
Total/NA	Prep	8151A			169617	03/11/14 14:57	JRL	TAL BUF
Total/NA	Analysis	8151A		1	170053	03/14/14 12:08	DGB	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 05:25	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:52	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		5	170389	03/14/14 17:33	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		1	169415	03/10/14 13:15	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: Blind Dup #1

Lab Sample ID: 480-55676-12

Date Collected: 03/06/14 13:00

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169690	03/12/14 08:55	RMM	TAL BUF
Total/NA	Prep	3550C			169695	03/12/14 06:22	TRG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: Blind Dup #1

Lab Sample ID: 480-55676-12

Date Collected: 03/06/14 13:00

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B		50	169728	03/12/14 12:32	LMW	TAL BUF
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF
Total/NA	Analysis	8082A		1	169501	03/11/14 19:18	JMM	TAL BUF
Total/NA	Prep	8151A			169617	03/11/14 14:57	JRL	TAL BUF
Total/NA	Analysis	8151A		1	170053	03/14/14 12:38	DGB	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 05:28	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:55	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		5	170389	03/14/14 17:36	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		1	169415	03/10/14 13:17	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: SS-3

Lab Sample ID: 480-55676-13

Date Collected: 03/06/14 15:52

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		20	169690	03/12/14 09:19	RMM	TAL BUF
Total/NA	Prep	3550C			169695	03/12/14 06:22	TRG	TAL BUF
Total/NA	Analysis	8081B		50	169728	03/12/14 13:25	LMW	TAL BUF
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF
Total/NA	Analysis	8082A		1	169501	03/11/14 19:33	JMM	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 05:40	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 16:58	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		1	169415	03/10/14 13:19	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: HC-1 (0.3-1.4)

Lab Sample ID: 480-55676-14

Date Collected: 03/05/14 12:20

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF
Total/NA	Analysis	8082A		1	169501	03/11/14 19:47	JMM	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: HC-2 (0.4-2.0)

Lab Sample ID: 480-55676-15

Date Collected: 03/05/14 12:48

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169416	03/10/14 14:51	JRL	TAL BUF
Total/NA	Analysis	8082A		1	169501	03/11/14 20:02	JMM	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: HC-4 (0.7-2.0)

Lab Sample ID: 480-55676-16

Date Collected: 03/05/14 14:49

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169690	03/12/14 09:42	RMM	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 05:43	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 17:01	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		1	169415	03/10/14 13:24	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: HC-5 (0.4-1.7)

Lab Sample ID: 480-55676-17

Date Collected: 03/05/14 15:20

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		1	169690	03/12/14 10:05	RMM	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 05:46	LMH	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 17:04	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		10	169415	03/10/14 13:51	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Client Sample ID: HC-6 (0.3-2.0)

Lab Sample ID: 480-55676-18

Date Collected: 03/05/14 15:50

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			169510	03/11/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8270D		10	169690	03/12/14 10:28	RMM	TAL BUF
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170108	03/14/14 05:49	LMH	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Client Sample ID: HC-6 (0.3-2.0)

Lab Sample ID: 480-55676-18

Date Collected: 03/05/14 15:50

Matrix: Solid

Date Received: 03/07/14 11:20

Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			169834	03/13/14 11:00	JRK	TAL BUF
Total/NA	Analysis	6010C		1	170389	03/14/14 17:16	LMH	TAL BUF
Total/NA	Prep	7471B			169222	03/10/14 07:30	SS1	TAL BUF
Total/NA	Analysis	7471B		10	169415	03/10/14 13:53	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	169184	03/07/14 21:52	CMK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55676-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-55676-1	SB-1 (2-4)	Solid	03/06/14 10:31	03/07/14 11:20
480-55676-2	SB-2 (4-6)	Solid	03/06/14 09:57	03/07/14 11:20
480-55676-3	SB-3 (2-4)	Solid	03/06/14 11:55	03/07/14 11:20
480-55676-4	SB-4 (0.5-4.0)	Solid	03/06/14 11:08	03/07/14 11:20
480-55676-5	SB-5 (4-6)	Solid	03/06/14 15:38	03/07/14 11:20
480-55676-6	SB-6 (5-7)	Solid	03/06/14 15:06	03/07/14 11:20
480-55676-7	SB-7 (2-4)	Solid	03/06/14 14:11	03/07/14 11:20
480-55676-8	SB-8 (6-8)	Solid	03/06/14 15:00	03/07/14 11:20
480-55676-9	SB-9 (2-4)	Solid	03/06/14 14:06	03/07/14 11:20
480-55676-10	SS-1	Solid	03/06/14 13:54	03/07/14 11:20
480-55676-11	SS-2	Solid	03/06/14 14:53	03/07/14 11:20
480-55676-12	Blind Dup #1	Solid	03/06/14 13:00	03/07/14 11:20
480-55676-13	SS-3	Solid	03/06/14 15:52	03/07/14 11:20
480-55676-14	HC-1 (0.3-1.4)	Solid	03/05/14 12:20	03/07/14 11:20
480-55676-15	HC-2 (0.4-2.0)	Solid	03/05/14 12:48	03/07/14 11:20
480-55676-16	HC-4 (0.7-2.0)	Solid	03/05/14 14:49	03/07/14 11:20
480-55676-17	HC-5 (0.4-1.7)	Solid	03/05/14 15:20	03/07/14 11:20
480-55676-18	HC-6 (0.3-2.0)	Solid	03/05/14 15:50	03/07/14 11:20

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-55676-1

Login Number: 55676

List Source: TestAmerica Buffalo

List Number: 1

Creator: Stau, Brandon M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BENCHMARK
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-55718-1

Client Project/Site: Benchmark - 500 Seneca St.

For:

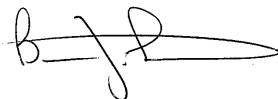
Benchmark Env. Eng. & Science, PLLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Mr. Nate Munley



Authorized for release by:

3/21/2014 2:39:09 PM

Brian Fischer, Manager of Project Management

(716)504-9835

brian.fischer@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the blank.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Job ID: 480-55718-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-55718-1

Receipt

The samples were received on 3/7/2014 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 169671 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-169671/4).

Method(s) 8270D: The laboratory control sample (LCS) for batch 169485 recovered outside control limits for one analyte. Four analytes are allowed outside limits when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The method blank MB 480-169485/1-A contained multiple analytes above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Client Sample ID: Cistern

Date Collected: 03/07/14 12:56

Date Received: 03/07/14 17:10

Lab Sample ID: 480-55718-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/12/14 03:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/12/14 03:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/12/14 03:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/12/14 03:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/12/14 03:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/12/14 03:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/12/14 03:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/12/14 03:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/12/14 03:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/12/14 03:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/12/14 03:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/12/14 03:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/12/14 03:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/12/14 03:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/12/14 03:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/12/14 03:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/12/14 03:41	1
2-Hexanone	ND		5.0	1.2	ug/L			03/12/14 03:41	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/12/14 03:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/12/14 03:41	1
Acetone	ND		10	3.0	ug/L			03/12/14 03:41	1
Benzene	ND		1.0	0.41	ug/L			03/12/14 03:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/12/14 03:41	1
Bromoform	ND		1.0	0.26	ug/L			03/12/14 03:41	1
Bromomethane	ND		1.0	0.69	ug/L			03/12/14 03:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/12/14 03:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/12/14 03:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/12/14 03:41	1
Chloroethane	ND		1.0	0.32	ug/L			03/12/14 03:41	1
Chloroform	ND		1.0	0.34	ug/L			03/12/14 03:41	1
Chloromethane	ND		1.0	0.35	ug/L			03/12/14 03:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/12/14 03:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/12/14 03:41	1
Cyclohexane	ND		1.0	0.18	ug/L			03/12/14 03:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/12/14 03:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/12/14 03:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/12/14 03:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/12/14 03:41	1
Methyl acetate	ND		2.5	0.50	ug/L			03/12/14 03:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/12/14 03:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/12/14 03:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/12/14 03:41	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/12/14 03:41	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/12/14 03:41	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/12/14 03:41	1
Styrene	ND		1.0	0.73	ug/L			03/12/14 03:41	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/12/14 03:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/12/14 03:41	1
Toluene	ND		1.0	0.51	ug/L			03/12/14 03:41	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Client Sample ID: Cistern

Lab Sample ID: 480-55718-1

Date Collected: 03/07/14 12:56

Matrix: Water

Date Received: 03/07/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/12/14 03:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/12/14 03:41	1
Trichloroethene	ND		1.0	0.46	ug/L			03/12/14 03:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/12/14 03:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/12/14 03:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/12/14 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		03/12/14 03:41	1
4-Bromofluorobenzene (Surr)	95		73 - 120		03/12/14 03:41	1
Toluene-d8 (Surr)	105		71 - 126		03/12/14 03:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.6	0.44	ug/L		03/11/14 06:43	03/12/14 10:30	1
2,4,6-Trichlorophenol	ND		4.6	0.56	ug/L		03/11/14 06:43	03/12/14 10:30	1
2,4-Dichlorophenol	ND		4.6	0.47	ug/L		03/11/14 06:43	03/12/14 10:30	1
2,4-Dimethylphenol	ND		4.6	0.46	ug/L		03/11/14 06:43	03/12/14 10:30	1
2,4-Dinitrophenol	ND		9.1	2.0	ug/L		03/11/14 06:43	03/12/14 10:30	1
2,4-Dinitrotoluene	ND		4.6	0.41	ug/L		03/11/14 06:43	03/12/14 10:30	1
2,6-Dinitrotoluene	ND		4.6	0.36	ug/L		03/11/14 06:43	03/12/14 10:30	1
2-Chloronaphthalene	ND		4.6	0.42	ug/L		03/11/14 06:43	03/12/14 10:30	1
2-Chlorophenol	ND		4.6	0.48	ug/L		03/11/14 06:43	03/12/14 10:30	1
2-Methylnaphthalene	ND		4.6	0.55	ug/L		03/11/14 06:43	03/12/14 10:30	1
2-Methylphenol	ND		4.6	0.36	ug/L		03/11/14 06:43	03/12/14 10:30	1
2-Nitroaniline	ND		9.1	0.38	ug/L		03/11/14 06:43	03/12/14 10:30	1
2-Nitrophenol	ND		4.6	0.44	ug/L		03/11/14 06:43	03/12/14 10:30	1
3,3'-Dichlorobenzidine	ND		4.6	0.36	ug/L		03/11/14 06:43	03/12/14 10:30	1
3-Nitroaniline	ND		9.1	0.44	ug/L		03/11/14 06:43	03/12/14 10:30	1
4,6-Dinitro-2-methylphenol	ND		9.1	2.0	ug/L		03/11/14 06:43	03/12/14 10:30	1
4-Bromophenyl phenyl ether	ND		4.6	0.41	ug/L		03/11/14 06:43	03/12/14 10:30	1
4-Chloro-3-methylphenol	ND		4.6	0.41	ug/L		03/11/14 06:43	03/12/14 10:30	1
4-Chloroaniline	ND		4.6	0.54	ug/L		03/11/14 06:43	03/12/14 10:30	1
4-Chlorophenyl phenyl ether	ND		4.6	0.32	ug/L		03/11/14 06:43	03/12/14 10:30	1
4-Methylphenol	ND		9.1	0.33	ug/L		03/11/14 06:43	03/12/14 10:30	1
4-Nitroaniline	ND		9.1	0.23	ug/L		03/11/14 06:43	03/12/14 10:30	1
4-Nitrophenol	ND		9.1	1.4	ug/L		03/11/14 06:43	03/12/14 10:30	1
Acenaphthene	ND		4.6	0.37	ug/L		03/11/14 06:43	03/12/14 10:30	1
Acenaphthylene	ND		4.6	0.35	ug/L		03/11/14 06:43	03/12/14 10:30	1
Acetophenone	ND		4.6	0.49	ug/L		03/11/14 06:43	03/12/14 10:30	1
Anthracene	ND		4.6	0.26	ug/L		03/11/14 06:43	03/12/14 10:30	1
Atrazine	ND		4.6	0.42	ug/L		03/11/14 06:43	03/12/14 10:30	1
Benzaldehyde	ND *		4.6	0.24	ug/L		03/11/14 06:43	03/12/14 10:30	1
Benzo(a)anthracene	ND		4.6	0.33	ug/L		03/11/14 06:43	03/12/14 10:30	1
Benzo(a)pyrene	ND		4.6	0.43	ug/L		03/11/14 06:43	03/12/14 10:30	1
Benzo(b)fluoranthene	ND		4.6	0.31	ug/L		03/11/14 06:43	03/12/14 10:30	1
Benzo(g,h,i)perylene	ND		4.6	0.32	ug/L		03/11/14 06:43	03/12/14 10:30	1
Benzo(k)fluoranthene	ND		4.6	0.67	ug/L		03/11/14 06:43	03/12/14 10:30	1
Biphenyl	ND		4.6	0.60	ug/L		03/11/14 06:43	03/12/14 10:30	1
bis (2-chloroisopropyl) ether	ND		4.6	0.47	ug/L		03/11/14 06:43	03/12/14 10:30	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Client Sample ID: Cistern

Lab Sample ID: 480-55718-1

Date Collected: 03/07/14 12:56

Matrix: Water

Date Received: 03/07/14 17:10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		4.6	0.32	ug/L		03/11/14 06:43	03/12/14 10:30	1
Bis(2-chloroethyl)ether	ND		4.6	0.36	ug/L		03/11/14 06:43	03/12/14 10:30	1
Bis(2-ethylhexyl) phthalate	ND		4.6	1.6	ug/L		03/11/14 06:43	03/12/14 10:30	1
Butyl benzyl phthalate	0.54	J B	4.6	0.38	ug/L		03/11/14 06:43	03/12/14 10:30	1
Caprolactam	ND		4.6	2.0	ug/L		03/11/14 06:43	03/12/14 10:30	1
Carbazole	ND		4.6	0.27	ug/L		03/11/14 06:43	03/12/14 10:30	1
Chrysene	ND		4.6	0.30	ug/L		03/11/14 06:43	03/12/14 10:30	1
Dibenz(a,h)anthracene	ND		4.6	0.38	ug/L		03/11/14 06:43	03/12/14 10:30	1
Dibenzofuran	ND		9.1	0.47	ug/L		03/11/14 06:43	03/12/14 10:30	1
Diethyl phthalate	ND		4.6	0.20	ug/L		03/11/14 06:43	03/12/14 10:30	1
Dimethyl phthalate	ND		4.6	0.33	ug/L		03/11/14 06:43	03/12/14 10:30	1
Di-n-butyl phthalate	0.31	J B	4.6	0.28	ug/L		03/11/14 06:43	03/12/14 10:30	1
Di-n-octyl phthalate	ND		4.6	0.43	ug/L		03/11/14 06:43	03/12/14 10:30	1
Fluoranthene	ND		4.6	0.36	ug/L		03/11/14 06:43	03/12/14 10:30	1
Fluorene	ND		4.6	0.33	ug/L		03/11/14 06:43	03/12/14 10:30	1
Hexachlorobenzene	ND		4.6	0.47	ug/L		03/11/14 06:43	03/12/14 10:30	1
Hexachlorobutadiene	ND		4.6	0.62	ug/L		03/11/14 06:43	03/12/14 10:30	1
Hexachlorocyclopentadiene	ND		4.6	0.54	ug/L		03/11/14 06:43	03/12/14 10:30	1
Hexachloroethane	ND		4.6	0.54	ug/L		03/11/14 06:43	03/12/14 10:30	1
Indeno(1,2,3-cd)pyrene	ND		4.6	0.43	ug/L		03/11/14 06:43	03/12/14 10:30	1
Isophorone	ND		4.6	0.39	ug/L		03/11/14 06:43	03/12/14 10:30	1
Naphthalene	ND		4.6	0.69	ug/L		03/11/14 06:43	03/12/14 10:30	1
Nitrobenzene	ND		4.6	0.26	ug/L		03/11/14 06:43	03/12/14 10:30	1
N-Nitrosodi-n-propylamine	ND		4.6	0.49	ug/L		03/11/14 06:43	03/12/14 10:30	1
N-Nitrosodiphenylamine	ND		4.6	0.47	ug/L		03/11/14 06:43	03/12/14 10:30	1
Pentachlorophenol	ND		9.1	2.0	ug/L		03/11/14 06:43	03/12/14 10:30	1
Phenanthrene	ND		4.6	0.40	ug/L		03/11/14 06:43	03/12/14 10:30	1
Phenol	ND		4.6	0.36	ug/L		03/11/14 06:43	03/12/14 10:30	1
Pyrene	ND		4.6	0.31	ug/L		03/11/14 06:43	03/12/14 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	114		52 - 132	03/11/14 06:43	03/12/14 10:30	1
2-Fluorobiphenyl	92		48 - 120	03/11/14 06:43	03/12/14 10:30	1
2-Fluorophenol	72		20 - 120	03/11/14 06:43	03/12/14 10:30	1
Nitrobenzene-d5	99		46 - 120	03/11/14 06:43	03/12/14 10:30	1
Phenol-d5	54		16 - 120	03/11/14 06:43	03/12/14 10:30	1
p-Terphenyl-d14	101		67 - 150	03/11/14 06:43	03/12/14 10:30	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		03/10/14 13:00	03/12/14 15:50	1
Antimony	ND		0.020		mg/L		03/10/14 13:00	03/12/14 15:50	1
Arsenic	ND		0.015		mg/L		03/10/14 13:00	03/12/14 15:50	1
Barium	0.069		0.0020		mg/L		03/10/14 13:00	03/12/14 15:50	1
Beryllium	ND		0.0020		mg/L		03/10/14 13:00	03/12/14 15:50	1
Cadmium	ND		0.0020		mg/L		03/10/14 13:00	03/12/14 15:50	1
Calcium	35.7		0.50		mg/L		03/10/14 13:00	03/12/14 15:50	1
Chromium	ND		0.0040		mg/L		03/10/14 13:00	03/12/14 15:50	1
Cobalt	ND		0.0040		mg/L		03/10/14 13:00	03/12/14 15:50	1
Copper	ND		0.010		mg/L		03/10/14 13:00	03/12/14 15:50	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Client Sample ID: Cistern

Lab Sample ID: 480-55718-1

Date Collected: 03/07/14 12:56

Matrix: Water

Date Received: 03/07/14 17:10

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		03/10/14 13:00	03/12/14 15:50	1
Lead	ND		0.010		mg/L		03/10/14 13:00	03/12/14 15:50	1
Magnesium	7.3		0.20		mg/L		03/10/14 13:00	03/12/14 15:50	1
Manganese	ND		0.0030		mg/L		03/10/14 13:00	03/12/14 15:50	1
Nickel	ND		0.010		mg/L		03/10/14 13:00	03/12/14 15:50	1
Potassium	14.2	B7	0.50		mg/L		03/10/14 13:00	03/12/14 15:50	1
Selenium	ND		0.025		mg/L		03/10/14 13:00	03/12/14 15:50	1
Silver	ND		0.0060		mg/L		03/10/14 13:00	03/12/14 15:50	1
Sodium	81.2		1.0		mg/L		03/10/14 13:00	03/12/14 15:50	1
Thallium	ND		0.020		mg/L		03/10/14 13:00	03/12/14 15:50	1
Vanadium	ND		0.0050		mg/L		03/10/14 13:00	03/12/14 15:50	1
Zinc	0.020		0.010		mg/L		03/10/14 13:00	03/12/14 15:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		03/10/14 10:20	03/10/14 13:35	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Client Sample ID: TW-1

Date Collected: 03/07/14 12:33

Date Received: 03/07/14 17:10

Lab Sample ID: 480-55718-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/12/14 04:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/12/14 04:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/12/14 04:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/12/14 04:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/12/14 04:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/12/14 04:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/12/14 04:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/12/14 04:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/12/14 04:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/12/14 04:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/12/14 04:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/12/14 04:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/12/14 04:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/12/14 04:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/12/14 04:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/12/14 04:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/12/14 04:02	1
2-Hexanone	ND		5.0	1.2	ug/L			03/12/14 04:02	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/12/14 04:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/12/14 04:02	1
Acetone	6.5	J	10	3.0	ug/L			03/12/14 04:02	1
Benzene	ND		1.0	0.41	ug/L			03/12/14 04:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/12/14 04:02	1
Bromoform	ND		1.0	0.26	ug/L			03/12/14 04:02	1
Bromomethane	ND		1.0	0.69	ug/L			03/12/14 04:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/12/14 04:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/12/14 04:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/12/14 04:02	1
Chloroethane	ND		1.0	0.32	ug/L			03/12/14 04:02	1
Chloroform	ND		1.0	0.34	ug/L			03/12/14 04:02	1
Chloromethane	ND		1.0	0.35	ug/L			03/12/14 04:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/12/14 04:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/12/14 04:02	1
Cyclohexane	ND		1.0	0.18	ug/L			03/12/14 04:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/12/14 04:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/12/14 04:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/12/14 04:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/12/14 04:02	1
Methyl acetate	ND		2.5	0.50	ug/L			03/12/14 04:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/12/14 04:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/12/14 04:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/12/14 04:02	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/12/14 04:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/12/14 04:02	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/12/14 04:02	1
Styrene	ND		1.0	0.73	ug/L			03/12/14 04:02	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/12/14 04:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/12/14 04:02	1
Toluene	ND		1.0	0.51	ug/L			03/12/14 04:02	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Client Sample ID: TW-1

Lab Sample ID: 480-55718-2

Date Collected: 03/07/14 12:33

Matrix: Water

Date Received: 03/07/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/12/14 04:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/12/14 04:02	1
Trichloroethene	ND		1.0	0.46	ug/L			03/12/14 04:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/12/14 04:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/12/14 04:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/12/14 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		03/12/14 04:02	1
4-Bromofluorobenzene (Surr)	94		73 - 120		03/12/14 04:02	1
Toluene-d8 (Surr)	101		71 - 126		03/12/14 04:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.2	0.50	ug/L		03/11/14 06:43	03/12/14 10:54	1
2,4,6-Trichlorophenol	ND		5.2	0.63	ug/L		03/11/14 06:43	03/12/14 10:54	1
2,4-Dichlorophenol	ND		5.2	0.53	ug/L		03/11/14 06:43	03/12/14 10:54	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		03/11/14 06:43	03/12/14 10:54	1
2,4-Dinitrophenol	ND		10	2.3	ug/L		03/11/14 06:43	03/12/14 10:54	1
2,4-Dinitrotoluene	ND		5.2	0.46	ug/L		03/11/14 06:43	03/12/14 10:54	1
2,6-Dinitrotoluene	ND		5.2	0.41	ug/L		03/11/14 06:43	03/12/14 10:54	1
2-Chloronaphthalene	ND		5.2	0.48	ug/L		03/11/14 06:43	03/12/14 10:54	1
2-Chlorophenol	ND		5.2	0.55	ug/L		03/11/14 06:43	03/12/14 10:54	1
2-Methylnaphthalene	ND		5.2	0.62	ug/L		03/11/14 06:43	03/12/14 10:54	1
2-Methylphenol	ND		5.2	0.41	ug/L		03/11/14 06:43	03/12/14 10:54	1
2-Nitroaniline	ND		10	0.43	ug/L		03/11/14 06:43	03/12/14 10:54	1
2-Nitrophenol	ND		5.2	0.50	ug/L		03/11/14 06:43	03/12/14 10:54	1
3,3'-Dichlorobenzidine	ND		5.2	0.41	ug/L		03/11/14 06:43	03/12/14 10:54	1
3-Nitroaniline	ND		10	0.50	ug/L		03/11/14 06:43	03/12/14 10:54	1
4,6-Dinitro-2-methylphenol	ND		10	2.3	ug/L		03/11/14 06:43	03/12/14 10:54	1
4-Bromophenyl phenyl ether	ND		5.2	0.47	ug/L		03/11/14 06:43	03/12/14 10:54	1
4-Chloro-3-methylphenol	ND		5.2	0.47	ug/L		03/11/14 06:43	03/12/14 10:54	1
4-Chloroaniline	ND		5.2	0.61	ug/L		03/11/14 06:43	03/12/14 10:54	1
4-Chlorophenyl phenyl ether	ND		5.2	0.36	ug/L		03/11/14 06:43	03/12/14 10:54	1
4-Methylphenol	ND		10	0.37	ug/L		03/11/14 06:43	03/12/14 10:54	1
4-Nitroaniline	ND		10	0.26	ug/L		03/11/14 06:43	03/12/14 10:54	1
4-Nitrophenol	ND		10	1.6	ug/L		03/11/14 06:43	03/12/14 10:54	1
Acenaphthene	ND		5.2	0.42	ug/L		03/11/14 06:43	03/12/14 10:54	1
Acenaphthylene	ND		5.2	0.39	ug/L		03/11/14 06:43	03/12/14 10:54	1
Acetophenone	ND		5.2	0.56	ug/L		03/11/14 06:43	03/12/14 10:54	1
Anthracene	0.62	J	5.2	0.29	ug/L		03/11/14 06:43	03/12/14 10:54	1
Atrazine	ND		5.2	0.48	ug/L		03/11/14 06:43	03/12/14 10:54	1
Benzaldehyde	0.87	J *	5.2	0.28	ug/L		03/11/14 06:43	03/12/14 10:54	1
Benzo(a)anthracene	1.1	J	5.2	0.37	ug/L		03/11/14 06:43	03/12/14 10:54	1
Benzo(a)pyrene	0.96	J	5.2	0.49	ug/L		03/11/14 06:43	03/12/14 10:54	1
Benzo(b)fluoranthene	1.5	J	5.2	0.35	ug/L		03/11/14 06:43	03/12/14 10:54	1
Benzo(g,h,i)perylene	ND		5.2	0.36	ug/L		03/11/14 06:43	03/12/14 10:54	1
Benzo(k)fluoranthene	ND		5.2	0.76	ug/L		03/11/14 06:43	03/12/14 10:54	1
Biphenyl	ND		5.2	0.68	ug/L		03/11/14 06:43	03/12/14 10:54	1
bis (2-chloroisopropyl) ether	ND		5.2	0.54	ug/L		03/11/14 06:43	03/12/14 10:54	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Client Sample ID: TW-1

Lab Sample ID: 480-55718-2

Date Collected: 03/07/14 12:33

Matrix: Water

Date Received: 03/07/14 17:10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		5.2	0.36	ug/L		03/11/14 06:43	03/12/14 10:54	1
Bis(2-chloroethyl)ether	ND		5.2	0.41	ug/L		03/11/14 06:43	03/12/14 10:54	1
Bis(2-ethylhexyl) phthalate	3.5	J	5.2	1.9	ug/L		03/11/14 06:43	03/12/14 10:54	1
Butyl benzyl phthalate	1.5	J B	5.2	0.43	ug/L		03/11/14 06:43	03/12/14 10:54	1
Caprolactam	ND		5.2	2.3	ug/L		03/11/14 06:43	03/12/14 10:54	1
Carbazole	0.48	J	5.2	0.31	ug/L		03/11/14 06:43	03/12/14 10:54	1
Chrysene	1.1	J	5.2	0.34	ug/L		03/11/14 06:43	03/12/14 10:54	1
Dibenz(a,h)anthracene	ND		5.2	0.43	ug/L		03/11/14 06:43	03/12/14 10:54	1
Dibenzofuran	ND		10	0.53	ug/L		03/11/14 06:43	03/12/14 10:54	1
Diethyl phthalate	0.32	J	5.2	0.23	ug/L		03/11/14 06:43	03/12/14 10:54	1
Dimethyl phthalate	ND		5.2	0.37	ug/L		03/11/14 06:43	03/12/14 10:54	1
Di-n-butyl phthalate	2.2	J B	5.2	0.32	ug/L		03/11/14 06:43	03/12/14 10:54	1
Di-n-octyl phthalate	0.61	J	5.2	0.49	ug/L		03/11/14 06:43	03/12/14 10:54	1
Fluoranthene	2.6	J	5.2	0.41	ug/L		03/11/14 06:43	03/12/14 10:54	1
Fluorene	0.58	J	5.2	0.37	ug/L		03/11/14 06:43	03/12/14 10:54	1
Hexachlorobenzene	ND		5.2	0.53	ug/L		03/11/14 06:43	03/12/14 10:54	1
Hexachlorobutadiene	ND		5.2	0.70	ug/L		03/11/14 06:43	03/12/14 10:54	1
Hexachlorocyclopentadiene	ND		5.2	0.61	ug/L		03/11/14 06:43	03/12/14 10:54	1
Hexachloroethane	ND		5.2	0.61	ug/L		03/11/14 06:43	03/12/14 10:54	1
Indeno(1,2,3-cd)pyrene	ND		5.2	0.49	ug/L		03/11/14 06:43	03/12/14 10:54	1
Isophorone	ND		5.2	0.44	ug/L		03/11/14 06:43	03/12/14 10:54	1
Naphthalene	1.1	J	5.2	0.79	ug/L		03/11/14 06:43	03/12/14 10:54	1
Nitrobenzene	ND		5.2	0.30	ug/L		03/11/14 06:43	03/12/14 10:54	1
N-Nitrosodi-n-propylamine	ND		5.2	0.56	ug/L		03/11/14 06:43	03/12/14 10:54	1
N-Nitrosodiphenylamine	ND		5.2	0.53	ug/L		03/11/14 06:43	03/12/14 10:54	1
Pentachlorophenol	ND		10	2.3	ug/L		03/11/14 06:43	03/12/14 10:54	1
Phenanthrene	2.8	J B	5.2	0.46	ug/L		03/11/14 06:43	03/12/14 10:54	1
Phenol	0.78	J	5.2	0.40	ug/L		03/11/14 06:43	03/12/14 10:54	1
Pyrene	1.9	J	5.2	0.35	ug/L		03/11/14 06:43	03/12/14 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	114		52 - 132	03/11/14 06:43	03/12/14 10:54	1
2-Fluorobiphenyl	90		48 - 120	03/11/14 06:43	03/12/14 10:54	1
2-Fluorophenol	67		20 - 120	03/11/14 06:43	03/12/14 10:54	1
Nitrobenzene-d5	84		46 - 120	03/11/14 06:43	03/12/14 10:54	1
Phenol-d5	55		16 - 120	03/11/14 06:43	03/12/14 10:54	1
p-Terphenyl-d14	89		67 - 150	03/11/14 06:43	03/12/14 10:54	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.6		0.20		mg/L		03/10/14 13:00	03/12/14 15:53	1
Antimony	ND		0.020		mg/L		03/10/14 13:00	03/12/14 15:53	1
Arsenic	ND		0.015		mg/L		03/10/14 13:00	03/12/14 15:53	1
Barium	0.16		0.0020		mg/L		03/10/14 13:00	03/12/14 15:53	1
Beryllium	ND		0.0020		mg/L		03/10/14 13:00	03/12/14 15:53	1
Cadmium	ND		0.0020		mg/L		03/10/14 13:00	03/12/14 15:53	1
Calcium	48.2		0.50		mg/L		03/10/14 13:00	03/12/14 15:53	1
Chromium	0.0066		0.0040		mg/L		03/10/14 13:00	03/12/14 15:53	1
Cobalt	0.014		0.0040		mg/L		03/10/14 13:00	03/12/14 15:53	1
Copper	0.023		0.010		mg/L		03/10/14 13:00	03/12/14 15:53	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Client Sample ID: TW-1

Lab Sample ID: 480-55718-2

Date Collected: 03/07/14 12:33

Matrix: Water

Date Received: 03/07/14 17:10

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.8		0.050		mg/L		03/10/14 13:00	03/12/14 15:53	1
Lead	0.026		0.010		mg/L		03/10/14 13:00	03/12/14 15:53	1
Magnesium	6.0		0.20		mg/L		03/10/14 13:00	03/12/14 15:53	1
Manganese	0.23		0.0030		mg/L		03/10/14 13:00	03/12/14 15:53	1
Nickel	0.018		0.010		mg/L		03/10/14 13:00	03/12/14 15:53	1
Potassium	10.9	B7	0.50		mg/L		03/10/14 13:00	03/12/14 15:53	1
Selenium	ND		0.025		mg/L		03/10/14 13:00	03/12/14 15:53	1
Silver	ND		0.0060		mg/L		03/10/14 13:00	03/12/14 15:53	1
Sodium	517		1.0		mg/L		03/10/14 13:00	03/12/14 15:53	1
Thallium	ND		0.020		mg/L		03/10/14 13:00	03/12/14 15:53	1
Vanadium	ND		0.0050		mg/L		03/10/14 13:00	03/12/14 15:53	1
Zinc	0.096		0.010		mg/L		03/10/14 13:00	03/12/14 15:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		03/10/14 10:20	03/10/14 13:36	1

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Client Sample ID: Cistern

Date Collected: 03/07/14 12:56

Date Received: 03/07/14 17:10

Lab Sample ID: 480-55718-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	169643	03/12/14 03:41	NQN	TAL BUF
Total/NA	Prep	3510C			169485	03/11/14 06:43	TRG	TAL BUF
Total/NA	Analysis	8270D		1	169671	03/12/14 10:30	RMM	TAL BUF
Total/NA	Prep	3005A			169261	03/10/14 13:00	EHD	TAL BUF
Total/NA	Analysis	6010C		1	169922	03/12/14 15:50	LMH	TAL BUF
Total/NA	Prep	7470A			169308	03/10/14 10:20	JRK	TAL BUF
Total/NA	Analysis	7470A		1	169421	03/10/14 13:35	JRK	TAL BUF

Client Sample ID: TW-1

Date Collected: 03/07/14 12:33

Date Received: 03/07/14 17:10

Lab Sample ID: 480-55718-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	169643	03/12/14 04:02	NQN	TAL BUF
Total/NA	Prep	3510C			169485	03/11/14 06:43	TRG	TAL BUF
Total/NA	Analysis	8270D		1	169671	03/12/14 10:54	RMM	TAL BUF
Total/NA	Prep	3005A			169261	03/10/14 13:00	EHD	TAL BUF
Total/NA	Analysis	6010C		1	169922	03/12/14 15:53	LMH	TAL BUF
Total/NA	Prep	7470A			169308	03/10/14 10:20	JRK	TAL BUF
Total/NA	Analysis	7470A		1	169421	03/10/14 13:36	JRK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	NELAP	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14 *
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14 *
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14 *
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14 *
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-14
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	04-01-14 *
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	03-31-14 *
Wisconsin	State Program	5	998310390	08-31-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-55718-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-55718-1	Cistern	Water	03/07/14 12:56	03/07/14 17:10
480-55718-2	TW-1	Water	03/07/14 12:33	03/07/14 17:10

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-55718-1

Login Number: 55718

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	False	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

- 1
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- 10
- 11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-57215-1

Client Project/Site: Benchmark - 500 Seneca St.

For:

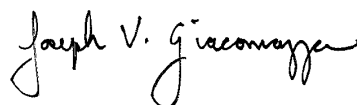
Benchmark Env. Eng. & Science, PLLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Mr. Tom Forbes



Authorized for release by:

4/14/2014 11:24:07 AM

Joe Giacomazza, Project Management Assistant II

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Designee for

Brian Fischer, Manager of Project Management

(716)504-9835

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Job ID: 480-57215-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-57215-1

Receipt

The samples were received on 4/3/2014 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

GC/MS VOA

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for batch 173750 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria. (CCVIS 480-173750/4)

Method(s) 8260C: Reported analyte concentrations in the following samples are below 200ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: SB-10 (8-10) (480-57215-1).

Method(s) 8260C: The following sample was analyzed medium level to bring the concentration of target analytes within the calibration range: SB-10 (8-10) (480-57215-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for 174052 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The laboratory control sample (LCS) for batch 174052 recovered outside control limits for the following analytes: Bromomethane, Dichlorodifluoromethane, and Trichlorofluoromethane. These analytes were not requested spike compounds; therefore, the data have been qualified and reported.

Method(s) 8260C: The method blank for batch 174078 contained 1,2,4-Trichlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 174166 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The following sample(s) was analyzed medium level to bring the concentration of target analytes within the calibration range: SB-11 (3-5) (480-57215-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) for batch 174052 recovered outside control limits for the following analyte: Trichlorofluoromethane. This analyte was not requested spike compounds; therefore, the data have been qualified and reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for batch 173815 recovered outside control limits for one analyte. Four analytes are allowed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8081B: All primary data is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data is reported from the ZB-35 column.

Method(s) 8151A: All primary data is reported from the RTX-CLPI column.

No other analytical or quality issues were noted.

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Job ID: 480-57215-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Metals

Method(s) 6010C: The continuing calibration blank (CCB 480-175136/25) contained total iron above the reporting limit (RL). All reported samples (LCSSRM 480-174370/2-), (MB 480-174370/1-A) associated with this CCB were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-175136/26) contained total iron outside the control limits. All reported samples (LCSSRM 480-174370/2-), (MB 480-174370/1-A) associated with this CCVL were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-175136/37) contained total iron outside the control limits. All reported samples SB-10 (8-10) (480-57215-1) associated with this CCVL were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

No other analytical or quality issues were noted.

Organic Prep

Method(s) 3550C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 174060.

No other analytical or quality issues were noted.

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-10 (8-10)

Lab Sample ID: 480-57215-1

Date Collected: 04/02/14 11:30

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.3	0.39	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,1,2,2-Tetrachloroethane	ND		5.3	0.86	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3	1.2	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,1,2-Trichloroethane	ND		5.3	0.69	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,1-Dichloroethane	ND		5.3	0.65	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,1-Dichloroethene	5.1	J	5.3	0.65	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,2,4-Trichlorobenzene	ND		5.3	0.32	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,2,4-Trimethylbenzene	ND		5.3	1.0	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,2-Dibromo-3-Chloropropane	ND		5.3	2.7	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,2-Dichlorobenzene	ND		5.3	0.41	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,2-Dichloroethane	ND		5.3	0.27	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,2-Dichloropropane	ND		5.3	2.7	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,3,5-Trimethylbenzene	ND		5.3	0.34	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,3-Dichlorobenzene	ND		5.3	0.27	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,4-Dichlorobenzene	ND		5.3	0.74	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
2-Hexanone	ND		27	2.7	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
4-Isopropyltoluene	ND		5.3	0.43	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Acetone	ND		27	4.5	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Benzene	ND		5.3	0.26	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Bromoform	ND		5.3	2.7	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Bromomethane	ND		5.3	0.48	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Carbon disulfide	ND		5.3	2.7	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Carbon tetrachloride	ND		5.3	0.51	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Chlorobenzene	ND		5.3	0.70	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Dibromochloromethane	ND		5.3	0.68	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Chloroethane	ND		5.3	1.2	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Chloroform	ND		5.3	0.33	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Chloromethane	ND		5.3	0.32	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
cis-1,2-Dichloroethene	230	E	5.3	0.68	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
cis-1,3-Dichloropropene	ND		5.3	0.76	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Cyclohexane	ND		5.3	0.74	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Bromodichloromethane	ND		5.3	0.71	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Dichlorodifluoromethane	ND		5.3	0.44	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Ethylbenzene	ND		5.3	0.37	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
1,2-Dibromoethane	ND		5.3	0.68	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Isopropylbenzene	ND		5.3	0.80	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Methyl acetate	ND		5.3	0.99	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
2-Butanone (MEK)	ND		27	1.9	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.7	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Methyl tert-butyl ether	ND		5.3	0.52	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Methylcyclohexane	ND		5.3	0.81	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Methylene Chloride	ND		5.3	2.4	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
m,p-Xylene	ND		11	0.89	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
n-Butylbenzene	ND		5.3	0.46	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
N-Propylbenzene	ND		5.3	0.42	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
o-Xylene	ND		5.3	0.69	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
sec-Butylbenzene	ND		5.3	0.46	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Styrene	ND		5.3	0.27	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
tert-Butylbenzene	ND		5.3	0.55	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-10 (8-10)

Lab Sample ID: 480-57215-1

Date Collected: 04/02/14 11:30

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1600	E	5.3	0.71	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Toluene	0.46	J	5.3	0.40	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
trans-1,2-Dichloroethene	2.8	J	5.3	0.55	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
trans-1,3-Dichloropropene	ND		5.3	2.3	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Trichloroethene	970	E	5.3	1.2	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Trichlorofluoromethane	ND		5.3	0.50	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Vinyl chloride	6.6		5.3	0.65	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Xylenes, Total	ND		11	0.89	ug/Kg	☼	04/03/14 21:32	04/04/14 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		64 - 126				04/03/14 21:32	04/04/14 02:56	1
Toluene-d8 (Surr)	101		71 - 125				04/03/14 21:32	04/04/14 02:56	1
4-Bromofluorobenzene (Surr)	96		72 - 126				04/03/14 21:32	04/04/14 02:56	1
Dibromofluoromethane (Surr)	110		60 - 140				04/03/14 21:32	04/04/14 02:56	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		110	29	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,1,2,2-Tetrachloroethane	ND		110	17	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		110	53	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,1,2-Trichloroethane	ND		110	22	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,1-Dichloroethane	ND		110	33	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,1-Dichloroethene	ND		110	37	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,2,4-Trichlorobenzene	ND		110	40	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,2,4-Trimethylbenzene	ND		110	29	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,2-Dibromo-3-Chloropropane	ND		110	53	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,2-Dichlorobenzene	ND		110	27	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,2-Dichloroethane	ND		110	43	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,2-Dichloropropane	ND		110	17	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,3,5-Trimethylbenzene	ND		110	32	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,3-Dichlorobenzene	ND		110	28	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,4-Dichlorobenzene	ND		110	15	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
2-Hexanone	ND		530	220	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
4-Isopropyltoluene	ND		110	36	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Acetone	ND		530	430	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Benzene	ND		110	20	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Bromoform	ND		110	53	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Bromomethane	ND	*	110	23	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Carbon disulfide	ND		110	48	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Carbon tetrachloride	ND		110	27	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Chlorobenzene	ND		110	14	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Dibromochloromethane	ND		110	51	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Chloroethane	ND		110	22	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Chloroform	ND		110	72	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Chloromethane	ND		110	25	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
cis-1,2-Dichloroethene	200		110	29	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
cis-1,3-Dichloropropene	ND		110	25	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Cyclohexane	ND		110	23	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Bromodichloromethane	ND		110	21	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Dichlorodifluoromethane	ND	*	110	46	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-10 (8-10)

Lab Sample ID: 480-57215-1

Date Collected: 04/02/14 11:30

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.5

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		110	31	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
1,2-Dibromoethane	ND		110	18	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Isopropylbenzene	ND		110	16	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Methyl acetate	ND		110	50	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
2-Butanone (MEK)	ND		530	310	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		530	34	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Methyl tert-butyl ether	ND		110	40	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Methylcyclohexane	ND		110	49	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Methylene Chloride	ND		110	21	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
m,p-Xylene	ND		210	58	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
n-Butylbenzene	ND		110	31	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
N-Propylbenzene	ND		110	28	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
o-Xylene	ND		110	14	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
sec-Butylbenzene	ND		110	39	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Styrene	ND		110	25	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
tert-Butylbenzene	ND		110	29	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Tetrachloroethene	3400		110	14	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Toluene	ND		110	28	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
trans-1,2-Dichloroethene	ND		110	25	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
trans-1,3-Dichloropropene	ND		110	10	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Trichloroethene	1300		110	29	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Trichlorofluoromethane	ND *		110	49	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Vinyl chloride	ND		110	35	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1
Xylenes, Total	ND		210	18	ug/Kg	☼	04/05/14 10:01	04/05/14 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		53 - 146	04/05/14 10:01	04/05/14 13:46	1
Toluene-d8 (Surr)	125		50 - 149	04/05/14 10:01	04/05/14 13:46	1
4-Bromofluorobenzene (Surr)	130		49 - 148	04/05/14 10:01	04/05/14 13:46	1
Dibromofluoromethane (Surr)	120		60 - 140	04/05/14 10:01	04/05/14 13:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		180	40	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2,4,6-Trichlorophenol	ND		180	12	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2,4-Dichlorophenol	ND		180	9.5	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2,4-Dimethylphenol	ND		180	49	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2,4-Dinitrophenol	ND		360	64	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2,4-Dinitrotoluene	ND		180	28	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2,6-Dinitrotoluene	ND		180	44	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2-Chlorophenol	ND		180	9.3	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2-Methylnaphthalene	ND		180	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2-Methylphenol	ND		180	5.6	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2-Nitroaniline	ND		360	58	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
2-Nitrophenol	ND		180	8.3	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
3,3'-Dichlorobenzidine	ND		180	160	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
3-Nitroaniline	ND		360	42	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
4,6-Dinitro-2-methylphenol	ND		360	63	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
4-Bromophenyl phenyl ether	ND		180	58	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-10 (8-10)

Lab Sample ID: 480-57215-1

Date Collected: 04/02/14 11:30

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	ND		180	7.5	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
4-Chloroaniline	ND		180	53	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
4-Chlorophenyl phenyl ether	ND		180	3.9	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
4-Methylphenol	ND		360	10	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
4-Nitroaniline	ND		360	20	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
4-Nitrophenol	ND		360	44	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Acenaphthylene	ND		180	1.5	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Acetophenone	ND		180	9.3	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Anthracene	ND		180	4.7	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Atrazine	ND		180	8.1	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Benzaldehyde	ND		180	20	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Benzo(a)anthracene	7.8	J	180	3.1	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Benzo(a)pyrene	ND		180	4.4	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Benzo(b)fluoranthene	ND		180	3.5	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Benzo(g,h,i)perylene	ND		180	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Benzo(k)fluoranthene	ND		180	2.0	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Biphenyl	ND		180	11	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
bis (2-chloroisopropyl) ether	ND		180	19	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Bis(2-chloroethoxy)methane	ND		180	9.9	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Bis(2-chloroethyl)ether	ND		180	16	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Bis(2-ethylhexyl) phthalate	ND		180	59	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Butyl benzyl phthalate	ND		180	49	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Caprolactam	ND *		180	79	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Carbazole	ND		180	2.1	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Chrysene	ND		180	1.8	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Dibenzofuran	ND		180	1.9	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Diethyl phthalate	ND		180	5.5	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Dimethyl phthalate	ND		180	4.7	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Di-n-butyl phthalate	ND		180	63	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Di-n-octyl phthalate	ND		180	4.3	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Fluoranthene	ND		180	2.6	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Fluorene	ND		180	4.2	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Hexachlorobenzene	ND		180	9.0	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Hexachlorobutadiene	ND		180	9.3	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Hexachlorocyclopentadiene	ND		180	55	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Hexachloroethane	ND		180	14	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Indeno(1,2,3-cd)pyrene	ND		180	5.0	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Isophorone	ND		180	9.1	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Naphthalene	ND		180	3.0	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Nitrobenzene	ND		180	8.1	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
N-Nitrosodiphenylamine	ND		180	9.9	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Pentachlorophenol	ND		360	62	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Phenanthrene	ND		180	3.8	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Phenol	ND		180	19	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1
Pyrene	ND		180	1.2	ug/Kg	☼	04/04/14 08:05	04/07/14 21:37	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-10 (8-10)

Lab Sample ID: 480-57215-1

Date Collected: 04/02/14 11:30

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		39 - 146	04/04/14 08:05	04/07/14 21:37	1
2-Fluorobiphenyl	81		37 - 120	04/04/14 08:05	04/07/14 21:37	1
2-Fluorophenol	71		18 - 120	04/04/14 08:05	04/07/14 21:37	1
Nitrobenzene-d5	64		34 - 132	04/04/14 08:05	04/07/14 21:37	1
Phenol-d5	70		11 - 120	04/04/14 08:05	04/07/14 21:37	1
p-Terphenyl-d14	93		65 - 153	04/04/14 08:05	04/07/14 21:37	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.35	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
4,4'-DDE	ND		1.8	0.27	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
4,4'-DDT	ND		1.8	0.18	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Aldrin	ND		1.8	0.44	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
alpha-BHC	ND		1.8	0.32	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
alpha-Chlordane	ND		1.8	0.89	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
beta-BHC	ND		1.8	0.19	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
delta-BHC	0.50	J	1.8	0.24	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Dieldrin	ND		1.8	0.43	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Endosulfan I	ND		1.8	0.23	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Endosulfan II	ND		1.8	0.32	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Endosulfan sulfate	ND		1.8	0.34	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Endrin	ND		1.8	0.25	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Endrin aldehyde	ND		1.8	0.46	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Endrin ketone	ND		1.8	0.44	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
gamma-BHC (Lindane)	ND		1.8	0.22	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
gamma-Chlordane	ND		1.8	0.57	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Heptachlor	ND		1.8	0.28	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Heptachlor epoxide	ND		1.8	0.46	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Methoxychlor	ND		1.8	0.25	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1
Toxaphene	ND		18	10	ug/Kg	☼	04/05/14 08:22	04/07/14 10:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		32 - 136	04/05/14 08:22	04/07/14 10:25	1
DCB Decachlorobiphenyl	87		32 - 136	04/05/14 08:22	04/07/14 10:25	1
Tetrachloro-m-xylene	78		30 - 124	04/05/14 08:22	04/07/14 10:25	1
Tetrachloro-m-xylene	82		30 - 124	04/05/14 08:22	04/07/14 10:25	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		200	39	ug/Kg	☼	04/05/14 08:25	04/07/14 11:08	1
PCB-1221	ND		200	39	ug/Kg	☼	04/05/14 08:25	04/07/14 11:08	1
PCB-1232	ND		200	39	ug/Kg	☼	04/05/14 08:25	04/07/14 11:08	1
PCB-1242	ND		200	39	ug/Kg	☼	04/05/14 08:25	04/07/14 11:08	1
PCB-1248	ND		200	39	ug/Kg	☼	04/05/14 08:25	04/07/14 11:08	1
PCB-1254	ND		200	94	ug/Kg	☼	04/05/14 08:25	04/07/14 11:08	1
PCB-1260	ND		200	94	ug/Kg	☼	04/05/14 08:25	04/07/14 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	123		47 - 176	04/05/14 08:25	04/07/14 11:08	1
DCB Decachlorobiphenyl	114		47 - 176	04/05/14 08:25	04/07/14 11:08	1
Tetrachloro-m-xylene	108		46 - 175	04/05/14 08:25	04/07/14 11:08	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-10 (8-10)

Lab Sample ID: 480-57215-1

Date Collected: 04/02/14 11:30

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		46 - 175	04/05/14 08:25	04/07/14 11:08	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.8	ug/Kg	☼	04/07/14 09:53	04/10/14 11:53	1
Silvex (2,4,5-TP)	ND		18	6.5	ug/Kg	☼	04/07/14 09:53	04/10/14 11:53	1
2,4-D	ND		18	11	ug/Kg	☼	04/07/14 09:53	04/10/14 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	86		39 - 120	04/07/14 09:53	04/10/14 11:53	1
2,4-Dichlorophenylacetic acid	74		39 - 120	04/07/14 09:53	04/10/14 11:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3250		11.6		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Antimony	ND		17.4		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Arsenic	ND		2.3		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Barium	32.5		0.58		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Beryllium	ND		0.23		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Cadmium	ND		0.23		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Calcium	83600		58.0		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Chromium	5.5		0.58		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Cobalt	2.7		0.58		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Copper	6.8		1.2		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Iron	6800 ^		11.6		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Lead	5.0		1.2		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Magnesium	29300		23.2		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Manganese	232		0.23		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Nickel	6.7		5.8		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Potassium	859		34.8		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Selenium	ND		4.6		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Silver	ND		0.70		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Sodium	228		162		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Thallium	ND		7.0		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Vanadium	9.0		0.58		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1
Zinc	33.3		2.3		mg/Kg	☼	04/08/14 16:20	04/10/14 12:42	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022		mg/Kg	☼	04/07/14 10:30	04/07/14 15:36	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-11 (3-5)

Lab Sample ID: 480-57215-2

Date Collected: 04/02/14 11:00

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,1,2,2-Tetrachloroethane	ND		5.1	0.82	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1	1.2	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,1,2-Trichloroethane	ND		5.1	0.66	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,1-Dichloroethane	ND		5.1	0.62	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,1-Dichloroethene	ND		5.1	0.62	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,2,4-Trimethylbenzene	ND		5.1	0.97	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.5	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,2-Dibromoethane	ND		5.1	0.65	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,2-Dichlorobenzene	ND		5.1	0.39	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,2-Dichloroethane	ND		5.1	0.25	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,2-Dichloropropane	ND		5.1	2.5	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,3,5-Trimethylbenzene	ND		5.1	0.33	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,3-Dichlorobenzene	ND		5.1	0.26	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
1,4-Dichlorobenzene	ND		5.1	0.71	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
4-Isopropyltoluene	ND		5.1	0.41	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.7	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Acetone	ND		25	4.3	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Benzene	ND		5.1	0.25	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Bromodichloromethane	ND		5.1	0.68	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Bromoform	ND		5.1	2.5	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Bromomethane	ND		5.1	0.45	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Carbon disulfide	ND		5.1	2.5	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Carbon tetrachloride	ND		5.1	0.49	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Chlorobenzene	ND		5.1	0.67	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Chloroethane	ND		5.1	1.1	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Chloroform	ND		5.1	0.31	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Chloromethane	ND		5.1	0.31	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
cis-1,2-Dichloroethene	18		5.1	0.65	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
cis-1,3-Dichloropropene	ND		5.1	0.73	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Cyclohexane	ND		5.1	0.71	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Dibromochloromethane	ND		5.1	0.65	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Dichlorodifluoromethane	ND		5.1	0.42	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Ethylbenzene	ND		5.1	0.35	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Isopropylbenzene	ND		5.1	0.76	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
m,p-Xylene	ND		10	0.85	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Methyl acetate	ND		5.1	0.94	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Methyl tert-butyl ether	ND		5.1	0.50	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Methylcyclohexane	ND		5.1	0.77	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Methylene Chloride	ND		5.1	2.3	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
n-Butylbenzene	ND		5.1	0.44	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
N-Propylbenzene	ND		5.1	0.40	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
o-Xylene	ND		5.1	0.66	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
sec-Butylbenzene	ND		5.1	0.44	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Styrene	ND		5.1	0.25	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
tert-Butylbenzene	ND		5.1	0.53	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-11 (3-5)

Lab Sample ID: 480-57215-2

Date Collected: 04/02/14 11:00

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	870	E	5.1	0.68	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Toluene	ND		5.1	0.38	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
trans-1,2-Dichloroethene	2.6	J	5.1	0.52	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
trans-1,3-Dichloropropene	ND		5.1	2.2	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Trichloroethene	93		5.1	1.1	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Trichlorofluoromethane	ND		5.1	0.48	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Vinyl chloride	6.7		5.1	0.62	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1
Xylenes, Total	ND		10	0.85	ug/Kg	☼	04/03/14 19:51	04/04/14 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 126	04/03/14 19:51	04/04/14 01:41	1
4-Bromofluorobenzene (Surr)	96		72 - 126	04/03/14 19:51	04/04/14 01:41	1
Toluene-d8 (Surr)	104		71 - 125	04/03/14 19:51	04/04/14 01:41	1
Dibromofluoromethane (Surr)	108		60 - 140	04/03/14 19:51	04/04/14 01:41	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		210	59	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,1,2,2-Tetrachloroethane	ND		210	34	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		210	110	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,1,2-Trichloroethane	ND		210	45	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,1-Dichloroethane	ND		210	66	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,1-Dichloroethene	ND		210	73	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,2,4-Trichlorobenzene	ND		210	80	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,2,4-Trimethylbenzene	ND		210	59	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,2-Dibromo-3-Chloropropane	ND		210	110	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,2-Dichlorobenzene	ND		210	54	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,2-Dichloroethane	ND		210	87	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,2-Dichloropropane	ND		210	34	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,3,5-Trimethylbenzene	ND		210	64	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,3-Dichlorobenzene	ND		210	57	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,4-Dichlorobenzene	ND		210	30	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
2-Butanone (MEK)	ND		1100	630	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
2-Hexanone	ND		1100	440	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
4-Isopropyltoluene	ND		210	72	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
4-Methyl-2-pentanone (MIBK)	ND		1100	68	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Acetone	ND		1100	870	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Benzene	ND		210	40	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Bromoform	ND		210	110	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Bromomethane	ND		210	47	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Carbon disulfide	ND		210	97	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Carbon tetrachloride	ND		210	54	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Chlorobenzene	ND		210	28	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Dibromochloromethane	ND		210	100	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Chloroethane	ND		210	44	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Chloroform	ND		210	150	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Chloromethane	ND		210	51	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
cis-1,2-Dichloroethene	ND		210	59	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Cyclohexane	ND		210	47	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Bromodichloromethane	ND		210	42	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-11 (3-5)

Lab Sample ID: 480-57215-2

Date Collected: 04/02/14 11:00

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.7

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		210	93	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Ethylbenzene	ND		210	62	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
1,2-Dibromoethane	ND		210	37	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Isopropylbenzene	ND		210	32	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Methyl acetate	ND		210	100	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Methyl tert-butyl ether	ND		210	80	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Methylcyclohexane	ND		210	99	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Methylene Chloride	ND		210	42	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
m,p-Xylene	ND		420	120	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
n-Butylbenzene	ND		210	62	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
N-Propylbenzene	ND		210	56	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
o-Xylene	ND		210	28	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
sec-Butylbenzene	ND		210	78	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Tetrachloroethene	14000		210	29	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Toluene	ND		210	57	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
trans-1,2-Dichloroethene	ND		210	50	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
trans-1,3-Dichloropropene	ND		210	21	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Trichloroethene	560		210	59	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Trichlorofluoromethane	ND		210	100	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Vinyl chloride	ND		210	71	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Xylenes, Total	ND		420	36	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
cis-1,3-Dichloropropene	ND		210	51	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
Styrene	ND		210	51	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2
tert-Butylbenzene	ND		210	59	ug/Kg	☼	04/03/14 20:04	04/07/14 12:21	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		53 - 146	04/03/14 20:04	04/07/14 12:21	2
4-Bromofluorobenzene (Surr)	109		49 - 148	04/03/14 20:04	04/07/14 12:21	2
Toluene-d8 (Surr)	106		50 - 149	04/03/14 20:04	04/07/14 12:21	2
Dibromofluoromethane (Surr)	104		60 - 140	04/03/14 20:04	04/07/14 12:21	2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		180	39	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2,4,6-Trichlorophenol	ND		180	12	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2,4-Dichlorophenol	ND		180	9.4	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2,4-Dimethylphenol	ND		180	48	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2,4-Dinitrophenol	ND		350	63	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2,4-Dinitrotoluene	ND		180	28	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2,6-Dinitrotoluene	ND		180	44	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2-Chlorophenol	ND		180	9.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2-Methylnaphthalene	ND		180	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2-Methylphenol	ND		180	5.5	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2-Nitroaniline	ND		350	57	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
2-Nitrophenol	ND		180	8.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
3,3'-Dichlorobenzidine	ND		180	160	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
3-Nitroaniline	ND		350	41	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
4,6-Dinitro-2-methylphenol	ND		350	62	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
4-Bromophenyl phenyl ether	ND		180	57	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-11 (3-5)

Lab Sample ID: 480-57215-2

Date Collected: 04/02/14 11:00

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	ND		180	7.4	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
4-Chloroaniline	ND		180	53	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
4-Chlorophenyl phenyl ether	ND		180	3.8	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
4-Methylphenol	ND		350	10	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
4-Nitroaniline	ND		350	20	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
4-Nitrophenol	ND		350	43	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Acenaphthylene	ND		180	1.5	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Acetophenone	ND		180	9.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Anthracene	ND		180	4.6	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Atrazine	ND		180	8.0	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Benzaldehyde	ND		180	20	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Benzo(a)anthracene	ND		180	3.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Benzo(a)pyrene	5.2	J	180	4.3	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Benzo(b)fluoranthene	4.2	J	180	3.5	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Benzo(g,h,i)perylene	ND		180	2.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Benzo(k)fluoranthene	ND		180	2.0	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Biphenyl	ND		180	11	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
bis (2-chloroisopropyl) ether	ND		180	19	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Bis(2-chloroethoxy)methane	ND		180	9.7	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Bis(2-chloroethyl)ether	ND		180	15	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Bis(2-ethylhexyl) phthalate	ND		180	58	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Butyl benzyl phthalate	ND		180	48	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Caprolactam	ND *		180	77	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Carbazole	ND		180	2.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Chrysene	ND		180	1.8	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Dibenz(a,h)anthracene	7.9	J	180	2.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Dibenzofuran	ND		180	1.9	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Diethyl phthalate	ND		180	5.4	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Dimethyl phthalate	ND		180	4.7	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Di-n-butyl phthalate	ND		180	62	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Di-n-octyl phthalate	ND		180	4.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Fluoranthene	ND		180	2.6	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Fluorene	ND		180	4.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Hexachlorobenzene	ND		180	8.9	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Hexachlorobutadiene	ND		180	9.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Hexachlorocyclopentadiene	ND		180	54	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Hexachloroethane	ND		180	14	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Indeno(1,2,3-cd)pyrene	6.6	J	180	5.0	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Isophorone	ND		180	8.9	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Naphthalene	ND		180	3.0	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Nitrobenzene	ND		180	7.9	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
N-Nitrosodiphenylamine	ND		180	9.8	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Pentachlorophenol	ND		350	61	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Phenanthrene	ND		180	3.8	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Phenol	ND		180	19	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1
Pyrene	ND		180	1.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:02	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-11 (3-5)

Date Collected: 04/02/14 11:00

Date Received: 04/03/14 14:05

Lab Sample ID: 480-57215-2

Matrix: Solid

Percent Solids: 91.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		39 - 146	04/04/14 08:05	04/07/14 22:02	1
2-Fluorobiphenyl	81		37 - 120	04/04/14 08:05	04/07/14 22:02	1
2-Fluorophenol	72		18 - 120	04/04/14 08:05	04/07/14 22:02	1
Nitrobenzene-d5	66		34 - 132	04/04/14 08:05	04/07/14 22:02	1
Phenol-d5	70		11 - 120	04/04/14 08:05	04/07/14 22:02	1
p-Terphenyl-d14	91		65 - 153	04/04/14 08:05	04/07/14 22:02	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-12 (3-5)

Lab Sample ID: 480-57215-3

Date Collected: 04/02/14 10:20

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.3	0.38	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,1,2,2-Tetrachloroethane	ND		5.3	0.85	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3	1.2	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,1,2-Trichloroethane	ND		5.3	0.68	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,1-Dichloroethane	ND		5.3	0.64	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,1-Dichloroethene	ND		5.3	0.64	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,2,4-Trichlorobenzene	ND		5.3	0.32	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,2,4-Trimethylbenzene	ND		5.3	1.0	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,2-Dibromo-3-Chloropropane	ND		5.3	2.6	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,2-Dibromoethane	ND		5.3	0.68	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,2-Dichlorobenzene	ND		5.3	0.41	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,2-Dichloroethane	ND		5.3	0.26	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,2-Dichloropropane	ND		5.3	2.6	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,3,5-Trimethylbenzene	ND		5.3	0.34	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,3-Dichlorobenzene	ND		5.3	0.27	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
1,4-Dichlorobenzene	ND		5.3	0.74	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
4-Isopropyltoluene	ND		5.3	0.42	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Acetone	9.8	J	26	4.4	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Benzene	ND		5.3	0.26	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Bromodichloromethane	ND		5.3	0.71	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Bromoform	ND		5.3	2.6	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Bromomethane	ND		5.3	0.47	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Carbon disulfide	ND		5.3	2.6	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Carbon tetrachloride	ND		5.3	0.51	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Chlorobenzene	ND		5.3	0.69	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Chloroethane	ND		5.3	1.2	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Chloroform	ND		5.3	0.33	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Chloromethane	ND		5.3	0.32	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
cis-1,2-Dichloroethene	2.3	J	5.3	0.67	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
cis-1,3-Dichloropropene	ND		5.3	0.76	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Cyclohexane	ND		5.3	0.74	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Dibromochloromethane	ND		5.3	0.67	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Dichlorodifluoromethane	ND		5.3	0.43	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Ethylbenzene	ND		5.3	0.36	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Isopropylbenzene	ND		5.3	0.79	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
m,p-Xylene	ND		11	0.88	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Methyl acetate	ND		5.3	0.98	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Methyl tert-butyl ether	ND		5.3	0.52	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Methylcyclohexane	ND		5.3	0.80	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Methylene Chloride	ND		5.3	2.4	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
n-Butylbenzene	ND		5.3	0.46	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
N-Propylbenzene	ND		5.3	0.42	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
o-Xylene	ND		5.3	0.69	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
sec-Butylbenzene	ND		5.3	0.46	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Styrene	ND		5.3	0.26	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
tert-Butylbenzene	ND		5.3	0.55	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-12 (3-5)

Lab Sample ID: 480-57215-3

Date Collected: 04/02/14 10:20

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.3	0.71	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Toluene	ND		5.3	0.40	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
trans-1,2-Dichloroethene	ND		5.3	0.54	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
trans-1,3-Dichloropropene	ND		5.3	2.3	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Trichloroethene	1.6	J	5.3	1.2	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Trichlorofluoromethane	ND		5.3	0.50	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Vinyl chloride	0.92	J	5.3	0.64	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1
Xylenes, Total	ND		11	0.88	ug/Kg	☼	04/03/14 19:51	04/04/14 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		64 - 126	04/03/14 19:51	04/04/14 02:06	1
4-Bromofluorobenzene (Surr)	95		72 - 126	04/03/14 19:51	04/04/14 02:06	1
Toluene-d8 (Surr)	103		71 - 125	04/03/14 19:51	04/04/14 02:06	1
Dibromofluoromethane (Surr)	108		60 - 140	04/03/14 19:51	04/04/14 02:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		180	40	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2,4,6-Trichlorophenol	ND		180	12	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2,4-Dichlorophenol	ND		180	9.6	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2,4-Dimethylphenol	ND		180	49	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2,4-Dinitrophenol	ND		360	64	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2,4-Dinitrotoluene	ND		180	28	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2,6-Dinitrotoluene	ND		180	45	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2-Chlorophenol	ND		180	9.3	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2-Methylnaphthalene	ND		180	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2-Methylphenol	ND		180	5.6	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2-Nitroaniline	ND		360	59	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
2-Nitrophenol	ND		180	8.4	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
3,3'-Dichlorobenzidine	ND		180	160	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
3-Nitroaniline	ND		360	42	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
4,6-Dinitro-2-methylphenol	ND		360	63	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
4-Bromophenyl phenyl ether	ND		180	58	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
4-Chloro-3-methylphenol	ND		180	7.5	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
4-Chloroaniline	ND		180	54	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
4-Chlorophenyl phenyl ether	ND		180	3.9	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
4-Methylphenol	ND		360	10	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
4-Nitroaniline	ND		360	20	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
4-Nitrophenol	ND		360	44	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Acenaphthene	ND		180	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Acenaphthylene	ND		180	1.5	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Acetophenone	ND		180	9.4	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Anthracene	ND		180	4.7	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Atrazine	ND		180	8.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Benzaldehyde	ND		180	20	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Benzo(a)anthracene	ND		180	3.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Benzo(a)pyrene	61	J	180	4.4	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Benzo(b)fluoranthene	ND		180	3.6	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Benzo(g,h,i)perylene	ND		180	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-12 (3-5)

Lab Sample ID: 480-57215-3

Date Collected: 04/02/14 10:20

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(k)fluoranthene	ND		180	2.0	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Biphenyl	ND		180	11	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
bis (2-chloroisopropyl) ether	ND		180	19	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Bis(2-chloroethoxy)methane	ND		180	10	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Bis(2-chloroethyl)ether	ND		180	16	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Bis(2-ethylhexyl) phthalate	ND		180	59	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Butyl benzyl phthalate	ND		180	49	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Caprolactam	ND	*	180	79	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Carbazole	ND		180	2.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Chrysene	ND		180	1.8	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Dibenz(a,h)anthracene	ND		180	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Dibenzofuran	ND		180	1.9	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Diethyl phthalate	ND		180	5.5	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Dimethyl phthalate	ND		180	4.8	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Di-n-butyl phthalate	ND		180	63	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Di-n-octyl phthalate	ND		180	4.3	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Fluoranthene	ND		180	2.7	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Fluorene	ND		180	4.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Hexachlorobenzene	ND		180	9.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Hexachlorobutadiene	ND		180	9.4	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Hexachlorocyclopentadiene	ND		180	55	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Hexachloroethane	ND		180	14	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Indeno(1,2,3-cd)pyrene	ND		180	5.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Isophorone	ND		180	9.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Naphthalene	ND		180	3.0	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Nitrobenzene	ND		180	8.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
N-Nitrosodi-n-propylamine	ND		180	15	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
N-Nitrosodiphenylamine	ND		180	10	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Pentachlorophenol	ND		360	63	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Phenanthrene	3.9	J	180	3.8	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Phenol	ND		180	19	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1
Pyrene	ND		180	1.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	101		39 - 146	04/04/14 08:05	04/07/14 22:26	1
2-Fluorobiphenyl	86		37 - 120	04/04/14 08:05	04/07/14 22:26	1
2-Fluorophenol	78		18 - 120	04/04/14 08:05	04/07/14 22:26	1
Nitrobenzene-d5	68		34 - 132	04/04/14 08:05	04/07/14 22:26	1
Phenol-d5	75		11 - 120	04/04/14 08:05	04/07/14 22:26	1
p-Terphenyl-d14	95		65 - 153	04/04/14 08:05	04/07/14 22:26	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: HC-3 (.5-1.5)

Lab Sample ID: 480-57215-4

Date Collected: 04/02/14 15:10

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 90.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		190	29	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
2,6-Dinitrotoluene	ND		190	45	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
2-Chloronaphthalene	ND		190	12	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
2-Methylnaphthalene	ND		190	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
2-Nitroaniline	ND		360	59	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
3,3'-Dichlorobenzidine	ND		190	160	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
3-Nitroaniline	ND		360	43	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
4-Bromophenyl phenyl ether	ND		190	59	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
4-Chloroaniline	ND		190	54	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
4-Chlorophenyl phenyl ether	ND		190	3.9	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
4-Nitroaniline	ND		360	21	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Acenaphthene	2.2	J	190	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Acetophenone	ND		190	9.5	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Anthracene	9.0	J	190	4.7	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Atrazine	ND		190	8.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Benzaldehyde	ND		190	20	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Benzo(a)anthracene	43	J	190	3.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Benzo(a)pyrene	32	J	190	4.5	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Benzo(b)fluoranthene	46	J	190	3.6	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Benzo(g,h,i)perylene	20	J	190	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Benzo(k)fluoranthene	ND		190	2.0	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Biphenyl	ND		190	12	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
bis (2-chloroisopropyl) ether	ND		190	19	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Bis(2-chloroethoxy)methane	ND		190	10	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Bis(2-chloroethyl)ether	ND		190	16	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Bis(2-ethylhexyl) phthalate	ND		190	60	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Butyl benzyl phthalate	ND		190	50	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Caprolactam	ND *		190	80	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Carbazole	6.2	J	190	2.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Chrysene	51	J	190	1.8	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Dibenz(a,h)anthracene	7.6	J	190	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Dibenzofuran	6.9	J	190	1.9	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Diethyl phthalate	ND		190	5.6	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Dimethyl phthalate	ND		190	4.8	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Di-n-butyl phthalate	ND		190	64	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Di-n-octyl phthalate	ND		190	4.3	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Fluoranthene	65	J	190	2.7	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Fluorene	ND		190	4.3	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Hexachlorobenzene	ND		190	9.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Hexachlorobutadiene	ND		190	9.5	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Hexachlorocyclopentadiene	ND		190	56	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Hexachloroethane	ND		190	14	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Indeno(1,2,3-cd)pyrene	19	J	190	5.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Isophorone	ND		190	9.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Naphthalene	18	J	190	3.1	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Nitrobenzene	ND		190	8.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
N-Nitrosodi-n-propylamine	ND		190	15	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
N-Nitrosodiphenylamine	ND		190	10	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: HC-3 (.5-1.5)

Lab Sample ID: 480-57215-4

Date Collected: 04/02/14 15:10

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 90.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	50	J	190	3.9	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Pyrene	52	J	190	1.2	ug/Kg	☼	04/04/14 08:05	04/07/14 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	96		39 - 146				04/04/14 08:05	04/07/14 22:50	1
2-Fluorobiphenyl	86		37 - 120				04/04/14 08:05	04/07/14 22:50	1
2-Fluorophenol	72		18 - 120				04/04/14 08:05	04/07/14 22:50	1
Nitrobenzene-d5	68		34 - 132				04/04/14 08:05	04/07/14 22:50	1
Phenol-d5	73		11 - 120				04/04/14 08:05	04/07/14 22:50	1
p-Terphenyl-d14	89		65 - 153				04/04/14 08:05	04/07/14 22:50	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		250	49	ug/Kg	☼	04/05/14 08:25	04/07/14 11:23	1
PCB-1221	ND		250	49	ug/Kg	☼	04/05/14 08:25	04/07/14 11:23	1
PCB-1232	ND		250	49	ug/Kg	☼	04/05/14 08:25	04/07/14 11:23	1
PCB-1242	ND		250	49	ug/Kg	☼	04/05/14 08:25	04/07/14 11:23	1
PCB-1248	ND		250	49	ug/Kg	☼	04/05/14 08:25	04/07/14 11:23	1
PCB-1254	ND		250	120	ug/Kg	☼	04/05/14 08:25	04/07/14 11:23	1
PCB-1260	ND		250	120	ug/Kg	☼	04/05/14 08:25	04/07/14 11:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	107		47 - 176				04/05/14 08:25	04/07/14 11:23	1
DCB Decachlorobiphenyl	100		47 - 176				04/05/14 08:25	04/07/14 11:23	1
Tetrachloro-m-xylene	94		46 - 175				04/05/14 08:25	04/07/14 11:23	1
Tetrachloro-m-xylene	95		46 - 175				04/05/14 08:25	04/07/14 11:23	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		2.3		mg/Kg	☼	04/08/14 16:20	04/10/14 12:45	1
Barium	131		0.57		mg/Kg	☼	04/08/14 16:20	04/10/14 12:45	1
Cadmium	ND		0.23		mg/Kg	☼	04/08/14 16:20	04/10/14 12:45	1
Chromium	9.9		0.57		mg/Kg	☼	04/08/14 16:20	04/10/14 12:45	1
Lead	34.3		1.1		mg/Kg	☼	04/08/14 16:20	04/10/14 12:45	1
Selenium	ND		4.5		mg/Kg	☼	04/08/14 16:20	04/10/14 12:45	1
Silver	2.3		0.68		mg/Kg	☼	04/08/14 16:20	04/10/14 12:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.022		mg/Kg	☼	04/07/14 10:30	04/07/14 15:37	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: HC-3 (1.5-2.5)

Lab Sample ID: 480-57215-5

Date Collected: 04/02/14 13:50

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		180	28	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
2,6-Dinitrotoluene	ND		180	45	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
2-Methylnaphthalene	5.3	J	180	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
2-Nitroaniline	ND		360	59	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
3,3'-Dichlorobenzidine	ND		180	160	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
3-Nitroaniline	ND		360	42	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
4-Bromophenyl phenyl ether	ND		180	58	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
4-Chloroaniline	ND		180	54	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
4-Chlorophenyl phenyl ether	ND		180	3.9	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
4-Nitroaniline	ND		360	20	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Acenaphthene	ND		180	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Acenaphthylene	ND		180	1.5	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Acetophenone	ND		180	9.4	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Anthracene	ND		180	4.7	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Atrazine	ND		180	8.2	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Benzaldehyde	ND		180	20	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Benzo(a)anthracene	19	J	180	3.2	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Benzo(a)pyrene	7.6	J	180	4.4	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Benzo(b)fluoranthene	16	J	180	3.6	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Benzo(g,h,i)perylene	7.3	J	180	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Benzo(k)fluoranthene	ND		180	2.0	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Biphenyl	ND		180	11	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
bis (2-chloroisopropyl) ether	ND		180	19	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Bis(2-chloroethoxy)methane	ND		180	10	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Bis(2-chloroethyl)ether	ND		180	16	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Bis(2-ethylhexyl) phthalate	ND		180	59	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Butyl benzyl phthalate	ND		180	49	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Caprolactam	ND *		180	79	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Carbazole	ND		180	2.1	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Chrysene	22	J	180	1.8	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Dibenz(a,h)anthracene	2.9	J	180	2.2	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Dibenzofuran	ND		180	1.9	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Diethyl phthalate	ND		180	5.5	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Dimethyl phthalate	ND		180	4.8	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Di-n-butyl phthalate	ND		180	63	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Di-n-octyl phthalate	ND		180	4.3	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Fluoranthene	16	J	180	2.7	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Fluorene	ND		180	4.2	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Hexachlorobenzene	ND		180	9.1	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Hexachlorobutadiene	ND		180	9.4	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Hexachlorocyclopentadiene	ND		180	55	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Hexachloroethane	ND		180	14	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Indeno(1,2,3-cd)pyrene	6.1	J	180	5.1	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Isophorone	ND		180	9.2	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Naphthalene	ND		180	3.1	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Nitrobenzene	ND		180	8.1	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
N-Nitrosodi-n-propylamine	ND		180	15	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
N-Nitrosodiphenylamine	ND		180	10	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: HC-3 (1.5-2.5)

Lab Sample ID: 480-57215-5

Date Collected: 04/02/14 13:50

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 91.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	14	J	180	3.8	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Pyrene	13	J	180	1.2	ug/Kg	☼	04/04/14 08:05	04/07/14 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	106		39 - 146				04/04/14 08:05	04/07/14 23:15	1
2-Fluorobiphenyl	89		37 - 120				04/04/14 08:05	04/07/14 23:15	1
2-Fluorophenol	74		18 - 120				04/04/14 08:05	04/07/14 23:15	1
Nitrobenzene-d5	71		34 - 132				04/04/14 08:05	04/07/14 23:15	1
Phenol-d5	74		11 - 120				04/04/14 08:05	04/07/14 23:15	1
p-Terphenyl-d14	94		65 - 153				04/04/14 08:05	04/07/14 23:15	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		250	48	ug/Kg	☼	04/05/14 08:25	04/07/14 11:38	1
PCB-1221	ND		250	48	ug/Kg	☼	04/05/14 08:25	04/07/14 11:38	1
PCB-1232	ND		250	48	ug/Kg	☼	04/05/14 08:25	04/07/14 11:38	1
PCB-1242	ND		250	48	ug/Kg	☼	04/05/14 08:25	04/07/14 11:38	1
PCB-1248	ND		250	48	ug/Kg	☼	04/05/14 08:25	04/07/14 11:38	1
PCB-1254	ND		250	110	ug/Kg	☼	04/05/14 08:25	04/07/14 11:38	1
PCB-1260	ND		250	110	ug/Kg	☼	04/05/14 08:25	04/07/14 11:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	123		47 - 176				04/05/14 08:25	04/07/14 11:38	1
DCB Decachlorobiphenyl	114		47 - 176				04/05/14 08:25	04/07/14 11:38	1
Tetrachloro-m-xylene	106		46 - 175				04/05/14 08:25	04/07/14 11:38	1
Tetrachloro-m-xylene	105		46 - 175				04/05/14 08:25	04/07/14 11:38	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		2.1		mg/Kg	☼	04/08/14 16:20	04/10/14 12:47	1
Barium	125		0.52		mg/Kg	☼	04/08/14 16:20	04/10/14 12:47	1
Cadmium	ND		0.21		mg/Kg	☼	04/08/14 16:20	04/10/14 12:47	1
Chromium	18.0		0.52		mg/Kg	☼	04/08/14 16:20	04/10/14 12:47	1
Lead	19.4		1.0		mg/Kg	☼	04/08/14 16:20	04/10/14 12:47	1
Selenium	ND		4.1		mg/Kg	☼	04/08/14 16:20	04/10/14 12:47	1
Silver	ND		0.62		mg/Kg	☼	04/08/14 16:20	04/10/14 12:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.021		mg/Kg	☼	04/07/14 10:30	04/07/14 15:38	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: BLIND DUP

Lab Sample ID: 480-57215-6

Date Collected: 04/02/14 08:00

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 93.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.2	0.37	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,1,2,2-Tetrachloroethane	ND		5.2	0.84	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.2	1.2	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,1,2-Trichloroethane	ND		5.2	0.67	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,1-Dichloroethane	ND		5.2	0.63	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,1-Dichloroethene	ND		5.2	0.63	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,2,4-Trichlorobenzene	ND		5.2	0.31	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,2,4-Trimethylbenzene	ND		5.2	0.99	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,2-Dibromo-3-Chloropropane	ND		5.2	2.6	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,2-Dibromoethane	ND		5.2	0.66	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,2-Dichlorobenzene	ND		5.2	0.40	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,2-Dichloroethane	ND		5.2	0.26	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,2-Dichloropropane	ND		5.2	2.6	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,3,5-Trimethylbenzene	ND		5.2	0.33	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,3-Dichlorobenzene	ND		5.2	0.27	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
1,4-Dichlorobenzene	ND		5.2	0.72	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
2-Hexanone	ND		26	2.6	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
4-Isopropyltoluene	ND		5.2	0.41	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Acetone	11	J	26	4.3	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Benzene	ND		5.2	0.25	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Bromodichloromethane	ND		5.2	0.69	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Bromoform	ND		5.2	2.6	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Bromomethane	ND		5.2	0.46	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Carbon disulfide	ND		5.2	2.6	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Carbon tetrachloride	ND		5.2	0.50	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Chlorobenzene	ND		5.2	0.68	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Chloroethane	ND		5.2	1.2	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Chloroform	ND		5.2	0.32	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Chloromethane	ND		5.2	0.31	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
cis-1,2-Dichloroethene	1.9	J	5.2	0.66	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
cis-1,3-Dichloropropene	ND		5.2	0.74	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Cyclohexane	ND		5.2	0.72	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Dibromochloromethane	ND		5.2	0.66	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Dichlorodifluoromethane	ND		5.2	0.43	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Ethylbenzene	ND		5.2	0.36	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Isopropylbenzene	ND		5.2	0.78	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
m,p-Xylene	ND		10	0.87	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Methyl acetate	ND		5.2	0.96	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Methyl tert-butyl ether	ND		5.2	0.51	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Methylcyclohexane	ND		5.2	0.78	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Methylene Chloride	ND		5.2	2.4	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
n-Butylbenzene	ND		5.2	0.45	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
N-Propylbenzene	ND		5.2	0.41	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
o-Xylene	ND		5.2	0.67	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
sec-Butylbenzene	ND		5.2	0.45	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
Styrene	ND		5.2	0.26	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1
tert-Butylbenzene	ND		5.2	0.54	ug/Kg	☼	04/03/14 19:51	04/04/14 02:31	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: BLIND DUP

Lab Sample ID: 480-57215-6

Date Collected: 04/02/14 08:00

Matrix: Solid

Date Received: 04/03/14 14:05

Percent Solids: 93.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.2	0.69	ug/Kg	⚠	04/03/14 19:51	04/04/14 02:31	1
Toluene	ND		5.2	0.39	ug/Kg	⚠	04/03/14 19:51	04/04/14 02:31	1
trans-1,2-Dichloroethene	ND		5.2	0.53	ug/Kg	⚠	04/03/14 19:51	04/04/14 02:31	1
trans-1,3-Dichloropropene	ND		5.2	2.3	ug/Kg	⚠	04/03/14 19:51	04/04/14 02:31	1
Trichloroethene	1.1	J	5.2	1.1	ug/Kg	⚠	04/03/14 19:51	04/04/14 02:31	1
Trichlorofluoromethane	ND		5.2	0.49	ug/Kg	⚠	04/03/14 19:51	04/04/14 02:31	1
Vinyl chloride	0.75	J	5.2	0.63	ug/Kg	⚠	04/03/14 19:51	04/04/14 02:31	1
Xylenes, Total	ND		10	0.87	ug/Kg	⚠	04/03/14 19:51	04/04/14 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		64 - 126				04/03/14 19:51	04/04/14 02:31	1
4-Bromofluorobenzene (Surr)	96		72 - 126				04/03/14 19:51	04/04/14 02:31	1
Toluene-d8 (Surr)	102		71 - 125				04/03/14 19:51	04/04/14 02:31	1
Dibromofluoromethane (Surr)	110		60 - 140				04/03/14 19:51	04/04/14 02:31	1

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: SB-10 (8-10)

Date Collected: 04/02/14 11:30

Date Received: 04/03/14 14:05

Lab Sample ID: 480-57215-1

Matrix: Solid

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			173760	04/03/14 21:32	CDC	TAL BUF
Total/NA	Analysis	8260C		1	173750	04/04/14 02:56	PJQ	TAL BUF
Total/NA	Prep	5035A	DL		174078	04/05/14 10:01	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	1	174052	04/05/14 13:46	RAL	TAL BUF
Total/NA	Prep	3550C			173815	04/04/14 08:05	TRG	TAL BUF
Total/NA	Analysis	8270D		1	174193	04/07/14 21:37	ANM	TAL BUF
Total/NA	Prep	3550C			174060	04/05/14 08:22	CAM	TAL BUF
Total/NA	Analysis	8081B		1	174178	04/07/14 10:25	LMW	TAL BUF
Total/NA	Prep	3550C			174061	04/05/14 08:25	JRL	TAL BUF
Total/NA	Analysis	8082A		1	174125	04/07/14 11:08	JMM	TAL BUF
Total/NA	Prep	8151A			174203	04/07/14 09:53	CAM	TAL BUF
Total/NA	Analysis	8151A		1	174897	04/10/14 11:53	DGB	TAL BUF
Total/NA	Prep	3050B			174370	04/08/14 16:20	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175136	04/10/14 12:42	LMH	TAL BUF
Total/NA	Prep	7471B			174168	04/07/14 10:30	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174312	04/07/14 15:36	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	173761	04/03/14 21:55	CMK	TAL BUF

Client Sample ID: SB-11 (3-5)

Date Collected: 04/02/14 11:00

Date Received: 04/03/14 14:05

Lab Sample ID: 480-57215-2

Matrix: Solid

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			173744	04/03/14 19:51	CDC	TAL BUF
Total/NA	Analysis	8260C		1	173750	04/04/14 01:41	PJQ	TAL BUF
Total/NA	Prep	5035A	DL		173747	04/03/14 20:04	CDC	TAL BUF
Total/NA	Analysis	8260C	DL	2	174166	04/07/14 12:21	GTG	TAL BUF
Total/NA	Prep	3550C			173815	04/04/14 08:05	TRG	TAL BUF
Total/NA	Analysis	8270D		1	174193	04/07/14 22:02	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	173761	04/03/14 21:55	CMK	TAL BUF

Client Sample ID: SB-12 (3-5)

Date Collected: 04/02/14 10:20

Date Received: 04/03/14 14:05

Lab Sample ID: 480-57215-3

Matrix: Solid

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			173744	04/03/14 19:51	CDC	TAL BUF
Total/NA	Analysis	8260C		1	173750	04/04/14 02:06	PJQ	TAL BUF
Total/NA	Prep	3550C			173815	04/04/14 08:05	TRG	TAL BUF
Total/NA	Analysis	8270D		1	174193	04/07/14 22:26	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	173761	04/03/14 21:55	CMK	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Client Sample ID: HC-3 (.5-1.5)

Date Collected: 04/02/14 15:10

Date Received: 04/03/14 14:05

Lab Sample ID: 480-57215-4

Matrix: Solid

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			173815	04/04/14 08:05	TRG	TAL BUF
Total/NA	Analysis	8270D		1	174193	04/07/14 22:50	ANM	TAL BUF
Total/NA	Prep	3550C			174061	04/05/14 08:25	JRL	TAL BUF
Total/NA	Analysis	8082A		1	174125	04/07/14 11:23	JMM	TAL BUF
Total/NA	Prep	3050B			174370	04/08/14 16:20	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175136	04/10/14 12:45	LMH	TAL BUF
Total/NA	Prep	7471B			174168	04/07/14 10:30	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174312	04/07/14 15:37	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	173761	04/03/14 21:55	CMK	TAL BUF

Client Sample ID: HC-3 (1.5-2.5)

Date Collected: 04/02/14 13:50

Date Received: 04/03/14 14:05

Lab Sample ID: 480-57215-5

Matrix: Solid

Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			173815	04/04/14 08:05	TRG	TAL BUF
Total/NA	Analysis	8270D		1	174193	04/07/14 23:15	ANM	TAL BUF
Total/NA	Prep	3550C			174061	04/05/14 08:25	JRL	TAL BUF
Total/NA	Analysis	8082A		1	174125	04/07/14 11:38	JMM	TAL BUF
Total/NA	Prep	3050B			174370	04/08/14 16:20	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175136	04/10/14 12:47	LMH	TAL BUF
Total/NA	Prep	7471B			174168	04/07/14 10:30	LRK	TAL BUF
Total/NA	Analysis	7471B		1	174312	04/07/14 15:38	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	173761	04/03/14 21:55	CMK	TAL BUF

Client Sample ID: BLIND DUP

Date Collected: 04/02/14 08:00

Date Received: 04/03/14 14:05

Lab Sample ID: 480-57215-6

Matrix: Solid

Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			173744	04/03/14 19:51	CDC	TAL BUF
Total/NA	Analysis	8260C		1	173750	04/04/14 02:31	PJQ	TAL BUF
Total/NA	Analysis	Moisture		1	173761	04/03/14 21:55	CMK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57215-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57215-1	SB-10 (8-10)	Solid	04/02/14 11:30	04/03/14 14:05
480-57215-2	SB-11 (3-5)	Solid	04/02/14 11:00	04/03/14 14:05
480-57215-3	SB-12 (3-5)	Solid	04/02/14 10:20	04/03/14 14:05
480-57215-4	HC-3 (.5-1.5)	Solid	04/02/14 15:10	04/03/14 14:05
480-57215-5	HC-3 (1.5-2.5)	Solid	04/02/14 13:50	04/03/14 14:05
480-57215-6	BLIND DUP	Solid	04/02/14 08:00	04/03/14 14:05

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-57215-1

Login Number: 57215

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	bmtk
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Chain of Custody Record

TAL-4124 (1007)

Client: **Turnkey** Project Manager: **Tom Forbes / Nate Munkey** Date: **4-2-14** Chain of Custody Number: **262622**

Address: **2558 Hamburg Turnpike** Telephone Number (Area Code)/Fax Number: **(716) 856-0599 / (716) 856-0583** Lab Number: **1** of **1**

City: **Buffalo** State: **NY** Zip Code: **14218** Site Contact: **Paul W. Worthman** Lab Contact: **B. Fischer**

Project Name and Location (State): **500 Seneca St Site** Carrier/Waybill Number: **0270-012-001**

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						Analysis (Attach list if more space is needed)									
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TLC+CPCL VOC	TLC SVCC	BN only SVCC	TAL Metals	PCB	Pest	Herb	Tot Solids	ICRA Metals	
SB-10 (8-10)	4-2-14	11:30				X	4						X	X		X	X	X				
SB-11 (3-5)	↓	11:00				X																
SB-12 (3-5)	↓	10:20				X																
HC-3 (.5-1.5)	↓	15:10				X							X	X								
HC-3 (1.5-2.5)	↓	13:50				X							X	X								
Blind Dup	4-2-14	8:00				X	3															

(Tried encase sampling but material was too soft → SB-10)

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months _____ (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other: **Standard**

Relinquished By: **Tom Forbes** Date: **4/3/14** Time: **1405**

Relinquished By: **Nate Munkey** Date: **4/3/14** Time: **1155**

Relinquished By: **B. Fischer** Date: **4/3/14** Time: **1405**

Comments: **2.0#1**

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-57543-1

Client Project/Site: Benchmark - 500 Seneca St.

For:

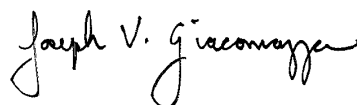
Benchmark Env. Eng. & Science, PLLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Mr. Tom Forbes



Authorized for release by:

4/21/2014 11:35:46 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management

(716)504-9835

brian.fischer@testamericainc.com

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The test results in this report meet all 2003 NELAP and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Job ID: 480-57543-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-57543-1

Receipt

The samples were received on 4/9/2014 12:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

Except:

Headspace in 2 of 3 vials for sample -08 and all 3 vials for sample -09TW-2 (480-57543-8), TW-3 (480-57543-9)

GC/MS VOA

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: TW-2 (480-57543-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for 174797 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (480-57543-8 MS), (480-57543-8 MSD), TW-2 (480-57543-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: TW-3 (480-57543-9).

Method(s) 8260C: A dilution was performed creating elevated reporting limits for the following sample due to an excessive amount of sediment in the sample vial: TW-3 (480-57543-9).

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 175383 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-175383/4), (CCVIS 480-175383/3).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 174901 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 175693 recovered above the upper control limit for 4-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-175693/19).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 174858 recovered outside control limits for the following analyte: N-Nitrosodiphenylamine. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: Surrogate recovery for the following samples was outside control limits: TW-2 (480-57543-8), TW-3 (480-57543-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The continuing calibration verification (CCV) associated with analytical batch 480-176136 recovered above the upper control limit for 4-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-176136/3).

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: MW-3 (480-57543-10). Elevated reporting

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Job ID: 480-57543-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

limits (RLs) are provided.

Method(s) 8270D: The method blank MB 480-174858/1-A contained the analyte Benzaldehyde above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8081B: The following sample and matrix spikes were diluted due to matrix effects: (480-57543-4 MS), (480-57543-4 MSD), SB-15 (0.2-2.0) (480-57543-4). Spike and Surrogate recoveries are not reported or not representative, and elevated reporting limits (RLs) are provided.

Method(s) 8081B: All primary data is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data is reported from the ZB-35 column.

No other analytical or quality issues were noted.

Metals

Method(s) 3005A: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: TW-3 (480-57543-9). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-175618/17) contained total vanadium outside the control limits. All reported samples (LCS 480-174859/2-A), (MB 480-174859/1-A) associated with this CCVL were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The following sample was diluted to bring the concentration of target analyte total calcium within the linear range: TW-3 (480-57543-9). Elevated reporting limits (RLs) are provided.

Method(s) 7470A: The Method Blank for preparation batch 175150 contained total mercury above the reporting limit (RL). The associated sample(s) TW-2 (480-57543-8), TW-3 (480-57543-9) contained detects for this analyte at concentrations greater than 10X the value found in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 245.1, 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples: TW-3 (480-57543-9). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The samples was prepared and analyzed at a 5x dilution, which maintained the purple color during digestion.

No other analytical or quality issues were noted.

Organic Prep

Method(s) 3510C: The following sample: TW-3 (480-57543-9) was decanted prior to preparation.

No other analytical or quality issues were noted.

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-13 (6-8)

Lab Sample ID: 480-57543-1

Date Collected: 04/08/14 13:05

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 94.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		7.2	0.52	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,1,2,2-Tetrachloroethane	ND		7.2	1.2	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	1.6	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,1,2-Trichloroethane	ND		7.2	0.93	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,1-Dichloroethane	ND		7.2	0.88	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,1-Dichloroethene	ND		7.2	0.88	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,2,4-Trichlorobenzene	ND		7.2	0.44	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,2,4-Trimethylbenzene	ND		7.2	1.4	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,2-Dibromo-3-Chloropropane	ND		7.2	3.6	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,2-Dibromoethane	ND		7.2	0.92	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,2-Dichlorobenzene	ND		7.2	0.56	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,2-Dichloroethane	ND		7.2	0.36	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,2-Dichloropropane	ND		7.2	3.6	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,3,5-Trimethylbenzene	ND		7.2	0.46	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,3-Dichlorobenzene	ND		7.2	0.37	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
1,4-Dichlorobenzene	ND		7.2	1.0	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
2-Butanone (MEK)	6.2	J	36	2.6	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
2-Hexanone	ND		36	3.6	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
4-Isopropyltoluene	ND		7.2	0.58	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
4-Methyl-2-pentanone (MIBK)	ND		36	2.4	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Acetone	26	J	36	6.1	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Benzene	ND		7.2	0.35	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Bromodichloromethane	ND		7.2	0.96	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Bromoform	ND		7.2	3.6	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Bromomethane	ND		7.2	0.65	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Carbon disulfide	ND		7.2	3.6	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Carbon tetrachloride	ND		7.2	0.70	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Chlorobenzene	ND		7.2	0.95	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Chloroethane	ND		7.2	1.6	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Chloroform	ND		7.2	0.44	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Chloromethane	ND		7.2	0.43	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
cis-1,2-Dichloroethene	ND		7.2	0.92	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
cis-1,3-Dichloropropene	ND		7.2	1.0	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Cyclohexane	ND		7.2	1.0	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Dibromochloromethane	ND		7.2	0.92	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Dichlorodifluoromethane	ND		7.2	0.59	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Ethylbenzene	ND		7.2	0.50	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Isopropylbenzene	ND		7.2	1.1	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
m,p-Xylene	ND		14	1.2	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Methyl acetate	ND		7.2	1.3	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Methyl tert-butyl ether	ND		7.2	0.71	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Methylcyclohexane	ND		7.2	1.1	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Methylene Chloride	ND		7.2	3.3	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
n-Butylbenzene	ND		7.2	0.63	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
N-Propylbenzene	ND		7.2	0.58	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
o-Xylene	ND		7.2	0.94	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
sec-Butylbenzene	ND		7.2	0.63	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Styrene	ND		7.2	0.36	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
tert-Butylbenzene	ND		7.2	0.75	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-13 (6-8)

Lab Sample ID: 480-57543-1

Date Collected: 04/08/14 13:05

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 94.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		7.2	0.96	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Toluene	ND		7.2	0.54	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
trans-1,2-Dichloroethene	ND		7.2	0.74	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
trans-1,3-Dichloropropene	ND		7.2	3.2	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Trichloroethene	ND		7.2	1.6	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Trichlorofluoromethane	ND		7.2	0.68	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Vinyl chloride	ND		7.2	0.88	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1
Xylenes, Total	ND		14	1.2	ug/Kg	☼	04/09/14 14:46	04/09/14 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		64 - 126	04/09/14 14:46	04/09/14 18:17	1
4-Bromofluorobenzene (Surr)	102		72 - 126	04/09/14 14:46	04/09/14 18:17	1
Toluene-d8 (Surr)	103		71 - 125	04/09/14 14:46	04/09/14 18:17	1
Dibromofluoromethane (Surr)	96		60 - 140	04/09/14 14:46	04/09/14 18:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		180	39	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2,4,6-Trichlorophenol	ND		180	12	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2,4-Dichlorophenol	ND		180	9.3	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2,4-Dimethylphenol	ND		180	48	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2,4-Dinitrophenol	ND		350	62	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2,4-Dinitrotoluene	ND		180	27	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2,6-Dinitrotoluene	ND		180	43	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2-Chlorophenol	ND		180	9.0	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2-Methylnaphthalene	ND		180	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2-Methylphenol	ND		180	5.4	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2-Nitroaniline	ND		350	57	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
2-Nitrophenol	ND		180	8.1	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
3,3'-Dichlorobenzidine	ND		180	160	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
3-Nitroaniline	ND		350	41	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
4,6-Dinitro-2-methylphenol	ND		350	61	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
4-Bromophenyl phenyl ether	ND		180	56	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
4-Chloro-3-methylphenol	ND		180	7.3	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
4-Chloroaniline	ND		180	52	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
4-Chlorophenyl phenyl ether	ND		180	3.8	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
4-Methylphenol	ND		350	9.9	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
4-Nitroaniline	ND		350	20	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
4-Nitrophenol	ND *		350	43	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Acenaphthylene	ND		180	1.4	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Acetophenone	ND		180	9.1	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Anthracene	ND		180	4.5	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Atrazine	ND		180	7.9	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Benzaldehyde	21 J		180	19	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Benzo(a)anthracene	ND		180	3.1	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Benzo(a)pyrene	ND		180	4.3	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Benzo(b)fluoranthene	ND		180	3.4	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Benzo(g,h,i)perylene	ND		180	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-13 (6-8)

Lab Sample ID: 480-57543-1

Date Collected: 04/08/14 13:05

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 94.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(k)fluoranthene	ND		180	1.9	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Biphenyl	ND		180	11	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
bis (2-chloroisopropyl) ether	ND		180	19	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Bis(2-chloroethoxy)methane	ND		180	9.6	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Bis(2-chloroethyl)ether	ND		180	15	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Bis(2-ethylhexyl) phthalate	ND *		180	57	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Butyl benzyl phthalate	ND *		180	48	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Caprolactam	ND		180	77	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Carbazole	ND		180	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Chrysene	ND		180	1.8	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Dibenzofuran	ND		180	1.8	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Diethyl phthalate	ND *		180	5.3	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Dimethyl phthalate	ND		180	4.6	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Di-n-butyl phthalate	ND *		180	61	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Di-n-octyl phthalate	ND		180	4.1	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Fluoranthene	ND		180	2.6	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Fluorene	ND		180	4.1	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Hexachlorobenzene	ND		180	8.8	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Hexachlorobutadiene	ND		180	9.1	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Hexachlorocyclopentadiene	ND		180	54	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Hexachloroethane	ND		180	14	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Indeno(1,2,3-cd)pyrene	ND		180	4.9	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Isophorone	ND		180	8.8	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Naphthalene	7.9 J		180	2.9	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Nitrobenzene	ND		180	7.8	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
N-Nitrosodiphenylamine	ND		180	9.7	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Pentachlorophenol	ND		350	61	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Phenanthrene	ND		180	3.7	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Phenol	ND		180	19	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1
Pyrene	ND		180	1.1	ug/Kg	☼	04/10/14 08:28	04/12/14 07:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	107		39 - 146	04/10/14 08:28	04/12/14 07:47	1
2-Fluorobiphenyl	94		37 - 120	04/10/14 08:28	04/12/14 07:47	1
2-Fluorophenol	80		18 - 120	04/10/14 08:28	04/12/14 07:47	1
Nitrobenzene-d5	101		34 - 132	04/10/14 08:28	04/12/14 07:47	1
Phenol-d5	88		11 - 120	04/10/14 08:28	04/12/14 07:47	1
p-Terphenyl-d14	134		65 - 153	04/10/14 08:28	04/12/14 07:47	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-14 (0.3-2.0)

Lab Sample ID: 480-57543-2

Date Collected: 04/08/14 09:28

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 96.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		180	38	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2,4,6-Trichlorophenol	ND		180	12	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2,4-Dichlorophenol	ND		180	9.2	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2,4-Dimethylphenol	ND		180	47	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2,4-Dinitrophenol	ND		340	61	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2,4-Dinitrotoluene	ND		180	27	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2,6-Dinitrotoluene	ND		180	43	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2-Chlorophenol	ND		180	8.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2-Methylnaphthalene	ND		180	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2-Methylphenol	ND		180	5.4	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2-Nitroaniline	ND		340	56	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
2-Nitrophenol	ND		180	8.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
3,3'-Dichlorobenzidine	ND		180	150	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
3-Nitroaniline	ND		340	40	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
4,6-Dinitro-2-methylphenol	ND		340	60	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
4-Bromophenyl phenyl ether	ND		180	56	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
4-Chloro-3-methylphenol	ND		180	7.2	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
4-Chloroaniline	ND		180	51	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
4-Chlorophenyl phenyl ether	ND		180	3.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
4-Methylphenol	ND		340	9.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
4-Nitroaniline	ND		340	20	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
4-Nitrophenol	ND *		340	42	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Acenaphthene	ND		180	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Acenaphthylene	ND		180	1.4	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Acetophenone	ND		180	9.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Anthracene	ND		180	4.5	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Atrazine	ND		180	7.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Benzaldehyde	ND		180	19	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Benzo(a)anthracene	ND		180	3.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Benzo(a)pyrene	ND		180	4.2	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Benzo(b)fluoranthene	ND		180	3.4	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Benzo(g,h,i)perylene	ND		180	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Benzo(k)fluoranthene	ND		180	1.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Biphenyl	ND		180	11	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
bis (2-chloroisopropyl) ether	ND		180	18	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Bis(2-chloroethoxy)methane	ND		180	9.5	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Bis(2-chloroethyl)ether	ND		180	15	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Bis(2-ethylhexyl) phthalate	ND *		180	56	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Butyl benzyl phthalate	ND *		180	47	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Caprolactam	ND		180	76	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Carbazole	ND		180	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Chrysene	ND		180	1.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Dibenz(a,h)anthracene	ND		180	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Dibenzofuran	ND		180	1.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Diethyl phthalate	ND *		180	5.3	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Dimethyl phthalate	ND		180	4.6	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Di-n-butyl phthalate	ND *		180	61	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Di-n-octyl phthalate	ND		180	4.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-14 (0.3-2.0)

Lab Sample ID: 480-57543-2

Date Collected: 04/08/14 09:28

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 96.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	7.5	J	180	2.5	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Fluorene	ND		180	4.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Hexachlorobenzene	ND		180	8.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Hexachlorobutadiene	ND		180	9.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Hexachlorocyclopentadiene	ND		180	53	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Hexachloroethane	ND		180	14	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Indeno(1,2,3-cd)pyrene	ND		180	4.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Isophorone	ND		180	8.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Naphthalene	ND		180	2.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Nitrobenzene	ND		180	7.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
N-Nitrosodiphenylamine	ND		180	9.6	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Pentachlorophenol	ND		340	60	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Phenanthrene	6.3	J	180	3.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Phenol	ND		180	18	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1
Pyrene	7.0	J	180	1.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	105		39 - 146	04/10/14 08:28	04/12/14 08:10	1
2-Fluorobiphenyl	91		37 - 120	04/10/14 08:28	04/12/14 08:10	1
2-Fluorophenol	78		18 - 120	04/10/14 08:28	04/12/14 08:10	1
Nitrobenzene-d5	95		34 - 132	04/10/14 08:28	04/12/14 08:10	1
Phenol-d5	82		11 - 120	04/10/14 08:28	04/12/14 08:10	1
p-Terphenyl-d14	127		65 - 153	04/10/14 08:28	04/12/14 08:10	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		220	42	ug/Kg	☼	04/10/14 15:16	04/11/14 20:00	1
PCB-1221	ND		220	42	ug/Kg	☼	04/10/14 15:16	04/11/14 20:00	1
PCB-1232	ND		220	42	ug/Kg	☼	04/10/14 15:16	04/11/14 20:00	1
PCB-1242	ND		220	42	ug/Kg	☼	04/10/14 15:16	04/11/14 20:00	1
PCB-1248	ND		220	42	ug/Kg	☼	04/10/14 15:16	04/11/14 20:00	1
PCB-1254	ND		220	100	ug/Kg	☼	04/10/14 15:16	04/11/14 20:00	1
PCB-1260	ND		220	100	ug/Kg	☼	04/10/14 15:16	04/11/14 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	113		47 - 176	04/10/14 15:16	04/11/14 20:00	1
DCB Decachlorobiphenyl	108		47 - 176	04/10/14 15:16	04/11/14 20:00	1
Tetrachloro-m-xylene	101		46 - 175	04/10/14 15:16	04/11/14 20:00	1
Tetrachloro-m-xylene	102		46 - 175	04/10/14 15:16	04/11/14 20:00	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8870		9.6		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Antimony	ND		14.4		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Arsenic	3.6		1.9		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Barium	49.7		0.48		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Beryllium	0.48		0.19		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Cadmium	ND		0.19		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Calcium	12500		48.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-14 (0.3-2.0)

Lab Sample ID: 480-57543-2

Date Collected: 04/08/14 09:28

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 96.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	10.5		0.48		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Cobalt	6.0		0.48		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Copper	15.8		0.96		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Iron	13700		9.6		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Lead	21.7		0.96		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Magnesium	5610		19.2		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Manganese	210		0.19		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Nickel	12.9		4.8		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Potassium	890		28.9		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Selenium	ND		3.8		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Silver	ND		0.58		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Sodium	ND		135		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Thallium	ND		5.8		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Vanadium	15.5		0.48		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1
Zinc	47.9		1.9		mg/Kg	☼	04/10/14 13:10	04/13/14 12:15	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.020		mg/Kg	☼	04/10/14 09:40	04/10/14 12:23	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-14 (2-4)

Lab Sample ID: 480-57543-3

Date Collected: 04/08/14 09:38

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 96.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.6	0.33	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.74	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,2,4-Trimethylbenzene	ND		4.6	0.88	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,3,5-Trimethylbenzene	ND		4.6	0.30	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
1,4-Dichlorobenzene	ND		4.6	0.64	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
4-Isopropyltoluene	ND		4.6	0.37	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Acetone	ND		23	3.9	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Benzene	ND		4.6	0.22	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Bromodichloromethane	ND		4.6	0.61	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Carbon tetrachloride	ND		4.6	0.44	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Chloroform	ND		4.6	0.28	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Cyclohexane	ND		4.6	0.64	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Isopropylbenzene	ND		4.6	0.69	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
m,p-Xylene	ND		9.2	0.77	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Methyl acetate	ND		4.6	0.85	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
n-Butylbenzene	ND		4.6	0.40	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
N-Propylbenzene	ND		4.6	0.37	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
o-Xylene	ND		4.6	0.60	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
sec-Butylbenzene	ND		4.6	0.40	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Styrene	ND		4.6	0.23	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
tert-Butylbenzene	ND		4.6	0.48	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-14 (2-4)

Lab Sample ID: 480-57543-3

Date Collected: 04/08/14 09:38

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 96.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		4.6	0.62	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Toluene	ND		4.6	0.35	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
trans-1,2-Dichloroethene	ND		4.6	0.47	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Trichloroethene	ND		4.6	1.0	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Trichlorofluoromethane	ND		4.6	0.43	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1
Xylenes, Total	ND		9.2	0.77	ug/Kg	☼	04/09/14 14:46	04/09/14 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 126	04/09/14 14:46	04/09/14 18:43	1
4-Bromofluorobenzene (Surr)	101		72 - 126	04/09/14 14:46	04/09/14 18:43	1
Toluene-d8 (Surr)	101		71 - 125	04/09/14 14:46	04/09/14 18:43	1
Dibromofluoromethane (Surr)	94		60 - 140	04/09/14 14:46	04/09/14 18:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	38	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2,4,6-Trichlorophenol	ND		170	11	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2,4-Dichlorophenol	ND		170	9.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2,4-Dimethylphenol	ND		170	47	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2,4-Dinitrophenol	ND		340	60	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2,4-Dinitrotoluene	ND		170	27	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2,6-Dinitrotoluene	ND		170	42	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2-Chloronaphthalene	ND		170	12	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2-Chlorophenol	ND		170	8.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2-Methylnaphthalene	ND		170	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2-Methylphenol	ND		170	5.3	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2-Nitroaniline	ND		340	55	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
2-Nitrophenol	ND		170	7.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
3-Nitroaniline	ND		340	40	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
4,6-Dinitro-2-methylphenol	ND		340	60	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
4-Bromophenyl phenyl ether	ND		170	55	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
4-Chloro-3-methylphenol	ND		170	7.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
4-Chloroaniline	ND		170	51	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
4-Chlorophenyl phenyl ether	ND		170	3.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
4-Methylphenol	ND		340	9.6	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
4-Nitroaniline	ND		340	19	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
4-Nitrophenol	ND *		340	42	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Acenaphthene	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Acenaphthylene	ND		170	1.4	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Acetophenone	ND		170	8.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Anthracene	ND		170	4.4	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Atrazine	ND		170	7.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Benzaldehyde	ND		170	19	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Benzo(a)anthracene	ND		170	3.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Benzo(a)pyrene	ND		170	4.2	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Benzo(b)fluoranthene	ND		170	3.4	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Benzo(g,h,i)perylene	ND		170	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-14 (2-4)

Lab Sample ID: 480-57543-3

Date Collected: 04/08/14 09:38

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 96.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(k)fluoranthene	ND		170	1.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Biphenyl	ND		170	11	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Bis(2-chloroethoxy)methane	ND		170	9.4	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Bis(2-ethylhexyl) phthalate	ND *		170	56	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Butyl benzyl phthalate	ND *		170	46	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Caprolactam	ND		170	75	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Carbazole	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Chrysene	ND		170	1.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Dibenzofuran	ND		170	1.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Diethyl phthalate	ND *		170	5.2	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Dimethyl phthalate	ND		170	4.5	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Di-n-butyl phthalate	ND *		170	60	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Di-n-octyl phthalate	ND		170	4.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Fluoranthene	ND		170	2.5	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Fluorene	ND		170	4.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Hexachlorobenzene	ND		170	8.6	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Hexachlorobutadiene	ND		170	8.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Hexachlorocyclopentadiene	ND		170	52	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Hexachloroethane	ND		170	13	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Indeno(1,2,3-cd)pyrene	ND		170	4.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Isophorone	ND		170	8.6	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Naphthalene	5.4 J		170	2.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Nitrobenzene	ND		170	7.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
N-Nitrosodi-n-propylamine	ND		170	14	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
N-Nitrosodiphenylamine	ND		170	9.4	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Pentachlorophenol	ND		340	59	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Phenanthrene	ND		170	3.6	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Phenol	ND		170	18	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1
Pyrene	ND		170	1.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		39 - 146	04/10/14 08:28	04/12/14 08:33	1
2-Fluorobiphenyl	91		37 - 120	04/10/14 08:28	04/12/14 08:33	1
2-Fluorophenol	79		18 - 120	04/10/14 08:28	04/12/14 08:33	1
Nitrobenzene-d5	98		34 - 132	04/10/14 08:28	04/12/14 08:33	1
Phenol-d5	85		11 - 120	04/10/14 08:28	04/12/14 08:33	1
p-Terphenyl-d14	125		65 - 153	04/10/14 08:28	04/12/14 08:33	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		240	46	ug/Kg	☼	04/10/14 15:16	04/11/14 20:15	1
PCB-1221	ND		240	46	ug/Kg	☼	04/10/14 15:16	04/11/14 20:15	1
PCB-1232	ND		240	46	ug/Kg	☼	04/10/14 15:16	04/11/14 20:15	1
PCB-1242	ND		240	46	ug/Kg	☼	04/10/14 15:16	04/11/14 20:15	1
PCB-1248	ND		240	46	ug/Kg	☼	04/10/14 15:16	04/11/14 20:15	1
PCB-1254	ND		240	110	ug/Kg	☼	04/10/14 15:16	04/11/14 20:15	1
PCB-1260	ND		240	110	ug/Kg	☼	04/10/14 15:16	04/11/14 20:15	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-14 (2-4)

Lab Sample ID: 480-57543-3

Date Collected: 04/08/14 09:38

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 96.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	128		47 - 176	04/10/14 15:16	04/11/14 20:15	1
DCB Decachlorobiphenyl	121		47 - 176	04/10/14 15:16	04/11/14 20:15	1
Tetrachloro-m-xylene	122		46 - 175	04/10/14 15:16	04/11/14 20:15	1
Tetrachloro-m-xylene	108		46 - 175	04/10/14 15:16	04/11/14 20:15	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14700		10.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Antimony	ND		15.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Arsenic	6.4		2.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Barium	144		0.50		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Beryllium	0.81		0.20		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Cadmium	0.42		0.20		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Calcium	3050		50.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Chromium	19.3		0.50		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Cobalt	14.2		0.50		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Copper	24.4		1.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Iron	24000		10.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Lead	20.3		1.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Magnesium	5780		20.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Manganese	1220		0.20		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Nickel	33.6		5.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Potassium	2140		30.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Selenium	ND		4.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Silver	ND		0.60		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Sodium	186		140		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Thallium	ND		6.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Vanadium	25.5		0.50		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1
Zinc	76.1		2.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:17	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019		mg/Kg	☼	04/10/14 09:40	04/10/14 12:25	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-15 (0.2-2.0)

Lab Sample ID: 480-57543-4

Date Collected: 04/08/14 10:11

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 95.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		180	38	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2,4,6-Trichlorophenol	ND		180	11	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2,4-Dichlorophenol	ND		180	9.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2,4-Dimethylphenol	ND		180	47	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2,4-Dinitrophenol	ND		340	61	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2,4-Dinitrotoluene	ND		180	27	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2,6-Dinitrotoluene	ND		180	43	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2-Chloronaphthalene	ND		180	12	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2-Chlorophenol	ND		180	8.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2-Methylnaphthalene	13	J	180	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2-Methylphenol	ND		180	5.3	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2-Nitroaniline	ND		340	56	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
2-Nitrophenol	ND		180	7.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
3,3'-Dichlorobenzidine	ND		180	150	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
3-Nitroaniline	ND		340	40	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
4,6-Dinitro-2-methylphenol	ND		340	60	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
4-Bromophenyl phenyl ether	ND		180	55	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
4-Chloro-3-methylphenol	ND		180	7.2	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
4-Chloroaniline	ND		180	51	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
4-Chlorophenyl phenyl ether	ND		180	3.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
4-Methylphenol	ND		340	9.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
4-Nitroaniline	ND		340	19	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
4-Nitrophenol	ND	*	340	42	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Acenaphthene	ND		180	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Acenaphthylene	ND		180	1.4	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Acetophenone	ND		180	8.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Anthracene	ND		180	4.5	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Atrazine	ND		180	7.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Benzaldehyde	ND		180	19	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Benzo(a)anthracene	ND		180	3.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Benzo(a)pyrene	21	J	180	4.2	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Benzo(b)fluoranthene	28	J	180	3.4	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Benzo(g,h,i)perylene	ND		180	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Benzo(k)fluoranthene	ND		180	1.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Biphenyl	ND		180	11	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
bis (2-chloroisopropyl) ether	ND		180	18	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Bis(2-chloroethoxy)methane	ND		180	9.5	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Bis(2-chloroethyl)ether	ND		180	15	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Bis(2-ethylhexyl) phthalate	ND	*	180	56	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Butyl benzyl phthalate	ND	*	180	47	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Caprolactam	ND		180	75	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Carbazole	ND		180	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Chrysene	26	J	180	1.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Dibenz(a,h)anthracene	ND		180	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Dibenzofuran	3.9	J	180	1.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Diethyl phthalate	ND	*	180	5.3	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Dimethyl phthalate	ND		180	4.5	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Di-n-butyl phthalate	ND	*	180	60	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Di-n-octyl phthalate	ND		180	4.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-15 (0.2-2.0)

Lab Sample ID: 480-57543-4

Date Collected: 04/08/14 10:11

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 95.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	32	J	180	2.5	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Fluorene	ND		180	4.0	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Hexachlorobenzene	ND		180	8.6	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Hexachlorobutadiene	ND		180	8.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Hexachlorocyclopentadiene	ND		180	53	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Hexachloroethane	ND		180	13	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Indeno(1,2,3-cd)pyrene	ND		180	4.8	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Isophorone	ND		180	8.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Naphthalene	15	J	180	2.9	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Nitrobenzene	ND		180	7.7	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
N-Nitrosodi-n-propylamine	ND		180	14	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
N-Nitrosodiphenylamine	ND		180	9.5	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Pentachlorophenol	ND		340	60	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Phenanthrene	27	J	180	3.6	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Phenol	ND		180	18	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1
Pyrene	36	J	180	1.1	ug/Kg	☼	04/10/14 08:28	04/12/14 08:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		39 - 146	04/10/14 08:28	04/12/14 08:56	1
2-Fluorobiphenyl	97		37 - 120	04/10/14 08:28	04/12/14 08:56	1
2-Fluorophenol	75		18 - 120	04/10/14 08:28	04/12/14 08:56	1
Nitrobenzene-d5	99		34 - 132	04/10/14 08:28	04/12/14 08:56	1
Phenol-d5	82		11 - 120	04/10/14 08:28	04/12/14 08:56	1
p-Terphenyl-d14	136		65 - 153	04/10/14 08:28	04/12/14 08:56	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		17	3.3	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
4,4'-DDE	ND		17	2.6	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
4,4'-DDT	7.2	J	17	1.7	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Aldrin	ND		17	4.2	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
alpha-BHC	ND		17	3.1	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
alpha-Chlordane	ND		17	8.5	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
beta-BHC	ND		17	1.9	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
delta-BHC	ND		17	2.3	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Dieldrin	ND		17	4.1	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Endosulfan I	ND		17	2.2	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Endosulfan II	ND		17	3.1	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Endosulfan sulfate	ND		17	3.2	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Endrin	ND		17	2.4	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Endrin aldehyde	ND		17	4.4	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Endrin ketone	ND		17	4.2	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
gamma-BHC (Lindane)	ND		17	2.1	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
gamma-Chlordane	ND		17	5.4	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Heptachlor	ND		17	2.7	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Heptachlor epoxide	ND		17	4.4	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Methoxychlor	ND		17	2.4	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10
Toxaphene	ND		170	100	ug/Kg	☼	04/10/14 08:19	04/11/14 15:20	10

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-15 (0.2-2.0)

Lab Sample ID: 480-57543-4

Date Collected: 04/08/14 10:11

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 95.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X	32 - 136	04/10/14 08:19	04/11/14 15:20	10
DCB Decachlorobiphenyl	0	X	32 - 136	04/10/14 08:19	04/11/14 15:20	10
Tetrachloro-m-xylene	0	X	30 - 124	04/10/14 08:19	04/11/14 15:20	10
Tetrachloro-m-xylene	0	X	30 - 124	04/10/14 08:19	04/11/14 15:20	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	36	ug/Kg	☼	04/10/14 15:16	04/11/14 20:29	1
PCB-1221	ND		190	36	ug/Kg	☼	04/10/14 15:16	04/11/14 20:29	1
PCB-1232	ND		190	36	ug/Kg	☼	04/10/14 15:16	04/11/14 20:29	1
PCB-1242	ND		190	36	ug/Kg	☼	04/10/14 15:16	04/11/14 20:29	1
PCB-1248	ND		190	36	ug/Kg	☼	04/10/14 15:16	04/11/14 20:29	1
PCB-1254	ND		190	87	ug/Kg	☼	04/10/14 15:16	04/11/14 20:29	1
PCB-1260	ND		190	87	ug/Kg	☼	04/10/14 15:16	04/11/14 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	117		47 - 176	04/10/14 15:16	04/11/14 20:29	1
DCB Decachlorobiphenyl	111		47 - 176	04/10/14 15:16	04/11/14 20:29	1
Tetrachloro-m-xylene	104		46 - 175	04/10/14 15:16	04/11/14 20:29	1
Tetrachloro-m-xylene	103		46 - 175	04/10/14 15:16	04/11/14 20:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14900		10.3		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Antimony	ND		15.4		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Arsenic	8.7		2.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Barium	139		0.51		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Beryllium	0.83		0.21		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Cadmium	0.24		0.21		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Calcium	5880		51.5		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Chromium	21.0		0.51		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Cobalt	12.3		0.51		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Copper	24.1		1.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Iron	25700		10.3		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Lead	18.5		1.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Magnesium	6200		20.6		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Manganese	796		0.21		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Nickel	34.6		5.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Potassium	1890		30.9		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Selenium	ND		4.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Silver	ND		0.62		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Sodium	224		144		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Thallium	ND		6.2		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Vanadium	27.9		0.51		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1
Zinc	73.0		2.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:28	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.020		mg/Kg	☼	04/10/14 09:40	04/10/14 12:27	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-15 (2-4)

Lab Sample ID: 480-57543-5

Date Collected: 04/08/14 10:20

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 96.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		170	27	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
2,6-Dinitrotoluene	ND		170	42	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
2-Chloronaphthalene	ND		170	12	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
2-Methylnaphthalene	ND		170	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
2-Nitroaniline	ND		340	55	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
3-Nitroaniline	ND		340	40	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
4-Bromophenyl phenyl ether	ND		170	55	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
4-Chloroaniline	ND		170	51	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
4-Chlorophenyl phenyl ether	ND		170	3.7	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
4-Nitroaniline	ND		340	19	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Acenaphthene	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Acenaphthylene	ND		170	1.4	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Acetophenone	ND		170	8.9	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Anthracene	ND		170	4.4	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Atrazine	ND		170	7.7	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Benzaldehyde	ND		170	19	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Benzo(a)anthracene	ND		170	3.0	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Benzo(a)pyrene	ND		170	4.2	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Benzo(b)fluoranthene	ND		170	3.3	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Benzo(g,h,i)perylene	ND		170	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Benzo(k)fluoranthene	ND		170	1.9	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Biphenyl	ND		170	11	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Bis(2-chloroethoxy)methane	ND		170	9.4	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Bis(2-ethylhexyl) phthalate	ND	*	170	56	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Butyl benzyl phthalate	ND	*	170	46	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Caprolactam	ND		170	75	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Carbazole	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Chrysene	ND		170	1.7	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Dibenzofuran	ND		170	1.8	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Diethyl phthalate	ND	*	170	5.2	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Dimethyl phthalate	ND		170	4.5	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Di-n-butyl phthalate	ND	*	170	60	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Di-n-octyl phthalate	ND		170	4.0	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Fluoranthene	ND		170	2.5	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Fluorene	ND		170	4.0	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Hexachlorobenzene	ND		170	8.6	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Hexachlorobutadiene	ND		170	8.8	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Hexachlorocyclopentadiene	ND		170	52	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Hexachloroethane	ND		170	13	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Indeno(1,2,3-cd)pyrene	ND		170	4.8	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Isophorone	ND		170	8.6	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Naphthalene	7.8	J	170	2.9	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Nitrobenzene	ND		170	7.7	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
N-Nitrosodi-n-propylamine	ND		170	14	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
N-Nitrosodiphenylamine	ND		170	9.4	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-15 (2-4)

Lab Sample ID: 480-57543-5

Date Collected: 04/08/14 10:20

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 96.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		170	3.6	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Pyrene	ND		170	1.1	ug/Kg	☼	04/10/14 08:28	04/12/14 09:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	106		39 - 146				04/10/14 08:28	04/12/14 09:19	1
2-Fluorobiphenyl	95		37 - 120				04/10/14 08:28	04/12/14 09:19	1
2-Fluorophenol	78		18 - 120				04/10/14 08:28	04/12/14 09:19	1
Nitrobenzene-d5	97		34 - 132				04/10/14 08:28	04/12/14 09:19	1
Phenol-d5	85		11 - 120				04/10/14 08:28	04/12/14 09:19	1
p-Terphenyl-d14	131		65 - 153				04/10/14 08:28	04/12/14 09:19	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		230	45	ug/Kg	☼	04/10/14 15:16	04/11/14 20:44	1
PCB-1221	ND		230	45	ug/Kg	☼	04/10/14 15:16	04/11/14 20:44	1
PCB-1232	ND		230	45	ug/Kg	☼	04/10/14 15:16	04/11/14 20:44	1
PCB-1242	ND		230	45	ug/Kg	☼	04/10/14 15:16	04/11/14 20:44	1
PCB-1248	ND		230	45	ug/Kg	☼	04/10/14 15:16	04/11/14 20:44	1
PCB-1254	ND		230	110	ug/Kg	☼	04/10/14 15:16	04/11/14 20:44	1
PCB-1260	ND		230	110	ug/Kg	☼	04/10/14 15:16	04/11/14 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	120		47 - 176				04/10/14 15:16	04/11/14 20:44	1
DCB Decachlorobiphenyl	113		47 - 176				04/10/14 15:16	04/11/14 20:44	1
Tetrachloro-m-xylene	104		46 - 175				04/10/14 15:16	04/11/14 20:44	1
Tetrachloro-m-xylene	104		46 - 175				04/10/14 15:16	04/11/14 20:44	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11200		10.2		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Antimony	ND		15.3		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Arsenic	3.3		2.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Barium	83.6		0.51		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Beryllium	0.58		0.20		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Cadmium	ND		0.20		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Calcium	49300		51.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Chromium	16.3		0.51		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Cobalt	8.2		0.51		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Copper	21.3		1.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Iron	17300		10.2		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Lead	14.4		1.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Magnesium	17200		20.4		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Manganese	303		0.20		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Nickel	21.9		5.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Potassium	1820		30.6		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Selenium	ND		4.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Silver	ND		0.61		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Sodium	259		143		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Thallium	ND		6.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1
Vanadium	20.1		0.51		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-15 (2-4)

Date Collected: 04/08/14 10:20

Date Received: 04/09/14 12:20

Lab Sample ID: 480-57543-5

Matrix: Solid

Percent Solids: 96.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	56.2		2.0		mg/Kg	☼	04/10/14 13:10	04/13/14 12:31	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021		mg/Kg	☼	04/10/14 09:40	04/10/14 12:29	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-16 (0.2-2.0)

Lab Sample ID: 480-57543-6

Date Collected: 04/08/14 10:50

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 95.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	38	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2,4,6-Trichlorophenol	ND		170	11	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2,4-Dichlorophenol	ND		170	9.1	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2,4-Dimethylphenol	ND		170	47	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2,4-Dinitrophenol	ND		340	61	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2,4-Dinitrotoluene	ND		170	27	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2,6-Dinitrotoluene	ND		170	42	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2-Chloronaphthalene	ND		170	12	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2-Chlorophenol	ND		170	8.8	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2-Methylnaphthalene	ND		170	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2-Methylphenol	ND		170	5.3	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2-Nitroaniline	ND		340	56	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
2-Nitrophenol	ND		170	7.9	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
3-Nitroaniline	ND		340	40	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
4,6-Dinitro-2-methylphenol	ND		340	60	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
4-Bromophenyl phenyl ether	ND		170	55	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
4-Chloro-3-methylphenol	ND		170	7.1	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
4-Chloroaniline	ND		170	51	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
4-Chlorophenyl phenyl ether	ND		170	3.7	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
4-Methylphenol	ND		340	9.7	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
4-Nitroaniline	ND		340	19	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
4-Nitrophenol	ND	*	340	42	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Acenaphthene	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Acenaphthylene	ND		170	1.4	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Acetophenone	ND		170	8.9	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Anthracene	ND		170	4.4	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Atrazine	ND		170	7.7	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Benzaldehyde	ND		170	19	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Benzo(a)anthracene	ND		170	3.0	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Benzo(a)pyrene	ND		170	4.2	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Benzo(b)fluoranthene	ND		170	3.4	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Benzo(g,h,i)perylene	ND		170	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Benzo(k)fluoranthene	ND		170	1.9	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Biphenyl	ND		170	11	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Bis(2-chloroethoxy)methane	ND		170	9.4	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Bis(2-ethylhexyl) phthalate	ND	*	170	56	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Butyl benzyl phthalate	ND	*	170	47	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Caprolactam	ND		170	75	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Carbazole	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Chrysene	ND		170	1.7	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Dibenzofuran	ND		170	1.8	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Diethyl phthalate	ND	*	170	5.2	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Dimethyl phthalate	ND		170	4.5	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Di-n-butyl phthalate	ND	*	170	60	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Di-n-octyl phthalate	ND		170	4.1	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-16 (0.2-2.0)

Lab Sample ID: 480-57543-6

Date Collected: 04/08/14 10:50

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 95.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		170	2.5	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Fluorene	ND		170	4.0	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Hexachlorobenzene	ND		170	8.6	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Hexachlorobutadiene	ND		170	8.9	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Hexachlorocyclopentadiene	ND		170	52	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Hexachloroethane	ND		170	13	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Indeno(1,2,3-cd)pyrene	ND		170	4.8	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Isophorone	ND		170	8.7	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Naphthalene	9.5	J	170	2.9	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Nitrobenzene	ND		170	7.7	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
N-Nitrosodi-n-propylamine	ND		170	14	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
N-Nitrosodiphenylamine	ND		170	9.5	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Pentachlorophenol	ND		340	60	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Phenanthrene	ND		170	3.6	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Phenol	ND		170	18	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1
Pyrene	ND		170	1.1	ug/Kg	☼	04/10/14 08:28	04/12/14 09:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	106		39 - 146	04/10/14 08:28	04/12/14 09:44	1
2-Fluorobiphenyl	91		37 - 120	04/10/14 08:28	04/12/14 09:44	1
2-Fluorophenol	75		18 - 120	04/10/14 08:28	04/12/14 09:44	1
Nitrobenzene-d5	94		34 - 132	04/10/14 08:28	04/12/14 09:44	1
Phenol-d5	82		11 - 120	04/10/14 08:28	04/12/14 09:44	1
p-Terphenyl-d14	122		65 - 153	04/10/14 08:28	04/12/14 09:44	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	37	ug/Kg	☼	04/10/14 15:16	04/11/14 20:59	1
PCB-1221	ND		190	37	ug/Kg	☼	04/10/14 15:16	04/11/14 20:59	1
PCB-1232	ND		190	37	ug/Kg	☼	04/10/14 15:16	04/11/14 20:59	1
PCB-1242	ND		190	37	ug/Kg	☼	04/10/14 15:16	04/11/14 20:59	1
PCB-1248	ND		190	37	ug/Kg	☼	04/10/14 15:16	04/11/14 20:59	1
PCB-1254	ND		190	89	ug/Kg	☼	04/10/14 15:16	04/11/14 20:59	1
PCB-1260	ND		190	89	ug/Kg	☼	04/10/14 15:16	04/11/14 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	118		47 - 176	04/10/14 15:16	04/11/14 20:59	1
DCB Decachlorobiphenyl	111		47 - 176	04/10/14 15:16	04/11/14 20:59	1
Tetrachloro-m-xylene	103		46 - 175	04/10/14 15:16	04/11/14 20:59	1
Tetrachloro-m-xylene	103		46 - 175	04/10/14 15:16	04/11/14 20:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11100		11.4		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Antimony	ND		17.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Arsenic	5.2		2.3		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Barium	109		0.57		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Beryllium	0.63		0.23		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Cadmium	ND		0.23		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Calcium	47400		56.8		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-16 (0.2-2.0)

Lab Sample ID: 480-57543-6

Date Collected: 04/08/14 10:50

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 95.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	15.2		0.57		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Cobalt	10.3		0.57		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Copper	20.4		1.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Iron	18400		11.4		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Lead	16.5		1.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Magnesium	16600		22.7		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Manganese	532		0.23		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Nickel	24.1		5.7		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Potassium	2010		34.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Selenium	ND		4.5		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Silver	ND		0.68		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Sodium	ND		159		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Thallium	ND		6.8		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Vanadium	20.8		0.57		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1
Zinc	59.6		2.3		mg/Kg	☼	04/10/14 13:10	04/13/14 12:34	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020		mg/Kg	☼	04/10/14 09:40	04/10/14 12:30	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-16 (2-4)

Lab Sample ID: 480-57543-7

Date Collected: 04/08/14 10:55

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 97.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		170	27	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
2,6-Dinitrotoluene	ND		170	42	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
2-Chloronaphthalene	ND		170	12	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
2-Methylnaphthalene	ND		170	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
2-Nitroaniline	ND		340	55	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
3-Nitroaniline	ND		340	39	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
4-Bromophenyl phenyl ether	ND		170	55	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
4-Chloroaniline	ND		170	50	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
4-Chlorophenyl phenyl ether	ND		170	3.7	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
4-Nitroaniline	ND		340	19	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Acenaphthene	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Acenaphthylene	ND		170	1.4	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Acetophenone	ND		170	8.8	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Anthracene	ND		170	4.4	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Atrazine	ND		170	7.6	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Benzaldehyde	ND		170	19	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Benzo(a)anthracene	ND		170	3.0	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Benzo(a)pyrene	ND		170	4.1	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Benzo(b)fluoranthene	ND		170	3.3	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Benzo(g,h,i)perylene	ND		170	2.1	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Benzo(k)fluoranthene	ND		170	1.9	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Biphenyl	ND		170	11	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Bis(2-chloroethoxy)methane	ND		170	9.3	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Bis(2-ethylhexyl) phthalate	ND	*	170	55	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Butyl benzyl phthalate	ND	*	170	46	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Caprolactam	ND		170	74	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Carbazole	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Chrysene	ND		170	1.7	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Dibenzofuran	ND		170	1.8	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Diethyl phthalate	ND	*	170	5.2	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Dimethyl phthalate	ND		170	4.5	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Di-n-butyl phthalate	ND	*	170	59	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Di-n-octyl phthalate	ND		170	4.0	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Fluoranthene	ND		170	2.5	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Fluorene	ND		170	4.0	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Hexachlorobenzene	ND		170	8.5	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Hexachlorobutadiene	ND		170	8.8	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Hexachlorocyclopentadiene	ND		170	52	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Hexachloroethane	ND		170	13	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Indeno(1,2,3-cd)pyrene	ND		170	4.7	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Isophorone	ND		170	8.6	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Naphthalene	8.9	J	170	2.9	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Nitrobenzene	ND		170	7.6	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
N-Nitrosodi-n-propylamine	ND		170	14	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
N-Nitrosodiphenylamine	ND		170	9.4	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-16 (2-4)

Lab Sample ID: 480-57543-7

Date Collected: 04/08/14 10:55

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 97.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		170	3.6	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Pyrene	ND		170	1.1	ug/Kg	☼	04/10/14 08:28	04/12/14 10:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	109		39 - 146				04/10/14 08:28	04/12/14 10:07	1
2-Fluorobiphenyl	94		37 - 120				04/10/14 08:28	04/12/14 10:07	1
2-Fluorophenol	77		18 - 120				04/10/14 08:28	04/12/14 10:07	1
Nitrobenzene-d5	98		34 - 132				04/10/14 08:28	04/12/14 10:07	1
Phenol-d5	84		11 - 120				04/10/14 08:28	04/12/14 10:07	1
p-Terphenyl-d14	133		65 - 153				04/10/14 08:28	04/12/14 10:07	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	38	ug/Kg	☼	04/10/14 15:16	04/11/14 21:14	1
PCB-1221	ND		190	38	ug/Kg	☼	04/10/14 15:16	04/11/14 21:14	1
PCB-1232	ND		190	38	ug/Kg	☼	04/10/14 15:16	04/11/14 21:14	1
PCB-1242	ND		190	38	ug/Kg	☼	04/10/14 15:16	04/11/14 21:14	1
PCB-1248	ND		190	38	ug/Kg	☼	04/10/14 15:16	04/11/14 21:14	1
PCB-1254	ND		190	90	ug/Kg	☼	04/10/14 15:16	04/11/14 21:14	1
PCB-1260	ND		190	90	ug/Kg	☼	04/10/14 15:16	04/11/14 21:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	117		47 - 176				04/10/14 15:16	04/11/14 21:14	1
DCB Decachlorobiphenyl	111		47 - 176				04/10/14 15:16	04/11/14 21:14	1
Tetrachloro-m-xylene	100		46 - 175				04/10/14 15:16	04/11/14 21:14	1
Tetrachloro-m-xylene	101		46 - 175				04/10/14 15:16	04/11/14 21:14	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9190		9.7		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Antimony	ND		14.6		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Arsenic	4.5		1.9		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Barium	75.9		0.49		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Beryllium	0.49		0.19		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Cadmium	ND		0.19		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Calcium	48700		48.6		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Chromium	14.2		0.49		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Cobalt	17.7		0.49		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Copper	23.7		0.97		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Iron	16400		9.7		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Lead	17.3		0.97		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Magnesium	17100		19.4		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Manganese	573		0.19		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Nickel	30.7		4.9		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Potassium	1460		29.1		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Selenium	ND		3.9		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Silver	ND		0.58		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Sodium	189		136		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Thallium	ND		5.8		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1
Vanadium	18.3		0.49		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-16 (2-4)

Date Collected: 04/08/14 10:55

Date Received: 04/09/14 12:20

Lab Sample ID: 480-57543-7

Matrix: Solid

Percent Solids: 97.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	50.1		1.9		mg/Kg	☼	04/10/14 13:10	04/13/14 12:37	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019		mg/Kg	☼	04/10/14 09:40	04/10/14 12:32	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: TW-2

Date Collected: 04/08/14 13:47

Date Received: 04/09/14 12:20

Lab Sample ID: 480-57543-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			04/10/14 04:17	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			04/10/14 04:17	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			04/10/14 04:17	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			04/10/14 04:17	20
1,1-Dichloroethane	ND		20	7.6	ug/L			04/10/14 04:17	20
1,1-Dichloroethene	ND		20	5.8	ug/L			04/10/14 04:17	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			04/10/14 04:17	20
1,2,4-Trimethylbenzene	ND		20	15	ug/L			04/10/14 04:17	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			04/10/14 04:17	20
1,2-Dibromoethane	ND		20	15	ug/L			04/10/14 04:17	20
1,2-Dichlorobenzene	ND		20	16	ug/L			04/10/14 04:17	20
1,2-Dichloroethane	ND		20	4.2	ug/L			04/10/14 04:17	20
1,2-Dichloropropane	ND		20	14	ug/L			04/10/14 04:17	20
1,3,5-Trimethylbenzene	ND		20	15	ug/L			04/10/14 04:17	20
1,3-Dichlorobenzene	ND		20	16	ug/L			04/10/14 04:17	20
1,4-Dichlorobenzene	ND		20	17	ug/L			04/10/14 04:17	20
2-Butanone (MEK)	ND		200	26	ug/L			04/10/14 04:17	20
2-Hexanone	ND		100	25	ug/L			04/10/14 04:17	20
4-Isopropyltoluene	ND		20	6.2	ug/L			04/10/14 04:17	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			04/10/14 04:17	20
Acetone	ND		200	60	ug/L			04/10/14 04:17	20
Benzene	ND		20	8.2	ug/L			04/10/14 04:17	20
Bromodichloromethane	ND		20	7.8	ug/L			04/10/14 04:17	20
Bromoform	ND		20	5.2	ug/L			04/10/14 04:17	20
Bromomethane	ND		20	14	ug/L			04/10/14 04:17	20
Carbon disulfide	ND		20	3.8	ug/L			04/10/14 04:17	20
Carbon tetrachloride	ND		20	5.4	ug/L			04/10/14 04:17	20
Chlorobenzene	ND		20	15	ug/L			04/10/14 04:17	20
Chloroethane	ND		20	6.4	ug/L			04/10/14 04:17	20
Chloroform	ND		20	6.8	ug/L			04/10/14 04:17	20
Chloromethane	ND		20	7.0	ug/L			04/10/14 04:17	20
cis-1,2-Dichloroethene	420		20	16	ug/L			04/10/14 04:17	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			04/10/14 04:17	20
Cyclohexane	ND		20	3.6	ug/L			04/10/14 04:17	20
Dibromochloromethane	ND		20	6.4	ug/L			04/10/14 04:17	20
Dichlorodifluoromethane	ND		20	14	ug/L			04/10/14 04:17	20
Ethylbenzene	ND		20	15	ug/L			04/10/14 04:17	20
Isopropylbenzene	ND		20	16	ug/L			04/10/14 04:17	20
m,p-Xylene	ND		40	13	ug/L			04/10/14 04:17	20
Methyl acetate	ND		50	10	ug/L			04/10/14 04:17	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			04/10/14 04:17	20
Methylcyclohexane	ND		20	3.2	ug/L			04/10/14 04:17	20
Methylene Chloride	ND		20	8.8	ug/L			04/10/14 04:17	20
n-Butylbenzene	ND		20	13	ug/L			04/10/14 04:17	20
N-Propylbenzene	ND		20	14	ug/L			04/10/14 04:17	20
o-Xylene	ND		20	15	ug/L			04/10/14 04:17	20
sec-Butylbenzene	ND		20	15	ug/L			04/10/14 04:17	20
Styrene	ND		20	15	ug/L			04/10/14 04:17	20
tert-Butylbenzene	ND		20	16	ug/L			04/10/14 04:17	20

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: TW-2

Lab Sample ID: 480-57543-8

Date Collected: 04/08/14 13:47

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2000	E	20	7.2	ug/L			04/10/14 04:17	20
Toluene	ND		20	10	ug/L			04/10/14 04:17	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			04/10/14 04:17	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			04/10/14 04:17	20
Trichloroethene	950		20	9.2	ug/L			04/10/14 04:17	20
Trichlorofluoromethane	ND		20	18	ug/L			04/10/14 04:17	20
Vinyl chloride	ND		20	18	ug/L			04/10/14 04:17	20
Xylenes, Total	ND		40	13	ug/L			04/10/14 04:17	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137					04/10/14 04:17	20
4-Bromofluorobenzene (Surr)	104		73 - 120					04/10/14 04:17	20
Toluene-d8 (Surr)	102		71 - 126					04/10/14 04:17	20

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			04/10/14 14:04	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			04/10/14 14:04	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12	ug/L			04/10/14 14:04	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			04/10/14 14:04	40
1,1-Dichloroethane	ND		40	15	ug/L			04/10/14 14:04	40
1,1-Dichloroethene	ND		40	12	ug/L			04/10/14 14:04	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			04/10/14 14:04	40
1,2,4-Trimethylbenzene	ND		40	30	ug/L			04/10/14 14:04	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			04/10/14 14:04	40
1,2-Dibromoethane	ND		40	29	ug/L			04/10/14 14:04	40
1,2-Dichlorobenzene	ND		40	32	ug/L			04/10/14 14:04	40
1,2-Dichloroethane	ND		40	8.4	ug/L			04/10/14 14:04	40
1,2-Dichloropropane	ND		40	29	ug/L			04/10/14 14:04	40
1,3,5-Trimethylbenzene	ND		40	31	ug/L			04/10/14 14:04	40
1,3-Dichlorobenzene	ND		40	31	ug/L			04/10/14 14:04	40
1,4-Dichlorobenzene	ND		40	34	ug/L			04/10/14 14:04	40
2-Butanone (MEK)	ND		400	53	ug/L			04/10/14 14:04	40
2-Hexanone	ND		200	50	ug/L			04/10/14 14:04	40
4-Isopropyltoluene	ND		40	12	ug/L			04/10/14 14:04	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			04/10/14 14:04	40
Acetone	ND		400	120	ug/L			04/10/14 14:04	40
Benzene	ND		40	16	ug/L			04/10/14 14:04	40
Bromodichloromethane	ND		40	16	ug/L			04/10/14 14:04	40
Bromoform	ND		40	10	ug/L			04/10/14 14:04	40
Bromomethane	ND		40	28	ug/L			04/10/14 14:04	40
Carbon disulfide	ND		40	7.6	ug/L			04/10/14 14:04	40
Carbon tetrachloride	ND		40	11	ug/L			04/10/14 14:04	40
Chlorobenzene	ND		40	30	ug/L			04/10/14 14:04	40
Chloroethane	ND		40	13	ug/L			04/10/14 14:04	40
Chloroform	ND		40	14	ug/L			04/10/14 14:04	40
Chloromethane	ND		40	14	ug/L			04/10/14 14:04	40
cis-1,2-Dichloroethene	440		40	32	ug/L			04/10/14 14:04	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			04/10/14 14:04	40
Cyclohexane	ND		40	7.2	ug/L			04/10/14 14:04	40

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: TW-2

Lab Sample ID: 480-57543-8

Date Collected: 04/08/14 13:47

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		40	13	ug/L			04/10/14 14:04	40
Dichlorodifluoromethane	ND		40	27	ug/L			04/10/14 14:04	40
Ethylbenzene	ND		40	30	ug/L			04/10/14 14:04	40
Isopropylbenzene	ND		40	32	ug/L			04/10/14 14:04	40
m,p-Xylene	ND		80	26	ug/L			04/10/14 14:04	40
Methyl acetate	ND		100	20	ug/L			04/10/14 14:04	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			04/10/14 14:04	40
Methylcyclohexane	ND		40	6.4	ug/L			04/10/14 14:04	40
Methylene Chloride	ND		40	18	ug/L			04/10/14 14:04	40
n-Butylbenzene	ND		40	26	ug/L			04/10/14 14:04	40
N-Propylbenzene	ND		40	28	ug/L			04/10/14 14:04	40
o-Xylene	ND		40	30	ug/L			04/10/14 14:04	40
sec-Butylbenzene	ND		40	30	ug/L			04/10/14 14:04	40
Styrene	ND		40	29	ug/L			04/10/14 14:04	40
tert-Butylbenzene	ND		40	32	ug/L			04/10/14 14:04	40
Tetrachloroethene	2500		40	14	ug/L			04/10/14 14:04	40
Toluene	ND		40	20	ug/L			04/10/14 14:04	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			04/10/14 14:04	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			04/10/14 14:04	40
Trichloroethene	1100		40	18	ug/L			04/10/14 14:04	40
Trichlorofluoromethane	ND		40	35	ug/L			04/10/14 14:04	40
Vinyl chloride	ND		40	36	ug/L			04/10/14 14:04	40
Xylenes, Total	ND		80	26	ug/L			04/10/14 14:04	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		04/10/14 14:04	40
4-Bromofluorobenzene (Surr)	103		73 - 120		04/10/14 14:04	40
Toluene-d8 (Surr)	102		71 - 126		04/10/14 14:04	40

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.7	0.45	ug/L		04/10/14 07:24	04/15/14 18:28	1
2,4,6-Trichlorophenol	ND		4.7	0.57	ug/L		04/10/14 07:24	04/15/14 18:28	1
2,4-Dichlorophenol	ND		4.7	0.48	ug/L		04/10/14 07:24	04/15/14 18:28	1
2,4-Dimethylphenol	2.4	J	4.7	0.47	ug/L		04/10/14 07:24	04/15/14 18:28	1
2,4-Dinitrophenol	ND		9.4	2.1	ug/L		04/10/14 07:24	04/15/14 18:28	1
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L		04/10/14 07:24	04/15/14 18:28	1
2,6-Dinitrotoluene	15		4.7	0.38	ug/L		04/10/14 07:24	04/15/14 18:28	1
2-Chloronaphthalene	ND		4.7	0.43	ug/L		04/10/14 07:24	04/15/14 18:28	1
2-Chlorophenol	ND		4.7	0.50	ug/L		04/10/14 07:24	04/15/14 18:28	1
2-Methylnaphthalene	2.2	J	4.7	0.56	ug/L		04/10/14 07:24	04/15/14 18:28	1
2-Methylphenol	2.8	J	4.7	0.38	ug/L		04/10/14 07:24	04/15/14 18:28	1
2-Nitroaniline	ND		9.4	0.40	ug/L		04/10/14 07:24	04/15/14 18:28	1
2-Nitrophenol	ND		4.7	0.45	ug/L		04/10/14 07:24	04/15/14 18:28	1
3,3'-Dichlorobenzidine	ND		4.7	0.38	ug/L		04/10/14 07:24	04/15/14 18:28	1
3-Nitroaniline	ND		9.4	0.45	ug/L		04/10/14 07:24	04/15/14 18:28	1
4,6-Dinitro-2-methylphenol	ND		9.4	2.1	ug/L		04/10/14 07:24	04/15/14 18:28	1
4-Bromophenyl phenyl ether	ND		4.7	0.42	ug/L		04/10/14 07:24	04/15/14 18:28	1
4-Chloro-3-methylphenol	ND		4.7	0.42	ug/L		04/10/14 07:24	04/15/14 18:28	1
4-Chloroaniline	ND		4.7	0.55	ug/L		04/10/14 07:24	04/15/14 18:28	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: TW-2

Lab Sample ID: 480-57543-8

Date Collected: 04/08/14 13:47

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		4.7	0.33	ug/L		04/10/14 07:24	04/15/14 18:28	1
4-Methylphenol	9.7		9.4	0.34	ug/L		04/10/14 07:24	04/15/14 18:28	1
4-Nitroaniline	ND		9.4	0.24	ug/L		04/10/14 07:24	04/15/14 18:28	1
4-Nitrophenol	ND		9.4	1.4	ug/L		04/10/14 07:24	04/15/14 18:28	1
Acenaphthene	ND		4.7	0.39	ug/L		04/10/14 07:24	04/15/14 18:28	1
Acenaphthylene	ND		4.7	0.36	ug/L		04/10/14 07:24	04/15/14 18:28	1
Acetophenone	2.0	J	4.7	0.51	ug/L		04/10/14 07:24	04/15/14 18:28	1
Anthracene	1.0	J	4.7	0.26	ug/L		04/10/14 07:24	04/15/14 18:28	1
Atrazine	ND		4.7	0.43	ug/L		04/10/14 07:24	04/15/14 18:28	1
Benzaldehyde	2.1	J B	4.7	0.25	ug/L		04/10/14 07:24	04/15/14 18:28	1
Benzo(a)anthracene	0.82	J	4.7	0.34	ug/L		04/10/14 07:24	04/15/14 18:28	1
Benzo(a)pyrene	0.69	J	4.7	0.44	ug/L		04/10/14 07:24	04/15/14 18:28	1
Benzo(b)fluoranthene	1.4	J	4.7	0.32	ug/L		04/10/14 07:24	04/15/14 18:28	1
Benzo(g,h,i)perylene	ND		4.7	0.33	ug/L		04/10/14 07:24	04/15/14 18:28	1
Benzo(k)fluoranthene	ND		4.7	0.69	ug/L		04/10/14 07:24	04/15/14 18:28	1
Biphenyl	ND		4.7	0.61	ug/L		04/10/14 07:24	04/15/14 18:28	1
bis (2-chloroisopropyl) ether	ND		4.7	0.49	ug/L		04/10/14 07:24	04/15/14 18:28	1
Bis(2-chloroethoxy)methane	ND		4.7	0.33	ug/L		04/10/14 07:24	04/15/14 18:28	1
Bis(2-chloroethyl)ether	ND		4.7	0.38	ug/L		04/10/14 07:24	04/15/14 18:28	1
Bis(2-ethylhexyl) phthalate	3.9	J	4.7	1.7	ug/L		04/10/14 07:24	04/15/14 18:28	1
Butyl benzyl phthalate	0.70	J	4.7	0.40	ug/L		04/10/14 07:24	04/15/14 18:28	1
Caprolactam	ND		4.7	2.1	ug/L		04/10/14 07:24	04/15/14 18:28	1
Carbazole	1.1	J	4.7	0.28	ug/L		04/10/14 07:24	04/15/14 18:28	1
Chrysene	0.49	J	4.7	0.31	ug/L		04/10/14 07:24	04/15/14 18:28	1
Dibenz(a,h)anthracene	0.57	J	4.7	0.40	ug/L		04/10/14 07:24	04/15/14 18:28	1
Dibenzofuran	0.77	J	9.4	0.48	ug/L		04/10/14 07:24	04/15/14 18:28	1
Diethyl phthalate	8.1		4.7	0.21	ug/L		04/10/14 07:24	04/15/14 18:28	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		04/10/14 07:24	04/15/14 18:28	1
Di-n-butyl phthalate	3.3	J	4.7	0.29	ug/L		04/10/14 07:24	04/15/14 18:28	1
Di-n-octyl phthalate	ND		4.7	0.44	ug/L		04/10/14 07:24	04/15/14 18:28	1
Fluoranthene	1.7	J	4.7	0.38	ug/L		04/10/14 07:24	04/15/14 18:28	1
Fluorene	ND		4.7	0.34	ug/L		04/10/14 07:24	04/15/14 18:28	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		04/10/14 07:24	04/15/14 18:28	1
Hexachlorobutadiene	ND		4.7	0.64	ug/L		04/10/14 07:24	04/15/14 18:28	1
Hexachlorocyclopentadiene	ND		4.7	0.55	ug/L		04/10/14 07:24	04/15/14 18:28	1
Hexachloroethane	ND		4.7	0.55	ug/L		04/10/14 07:24	04/15/14 18:28	1
Indeno(1,2,3-cd)pyrene	ND		4.7	0.44	ug/L		04/10/14 07:24	04/15/14 18:28	1
Isophorone	0.92	J	4.7	0.40	ug/L		04/10/14 07:24	04/15/14 18:28	1
Naphthalene	1.4	J	4.7	0.71	ug/L		04/10/14 07:24	04/15/14 18:28	1
Nitrobenzene	ND		4.7	0.27	ug/L		04/10/14 07:24	04/15/14 18:28	1
N-Nitrosodi-n-propylamine	ND		4.7	0.51	ug/L		04/10/14 07:24	04/15/14 18:28	1
N-Nitrosodiphenylamine	ND	*	4.7	0.48	ug/L		04/10/14 07:24	04/15/14 18:28	1
Pentachlorophenol	ND		9.4	2.1	ug/L		04/10/14 07:24	04/15/14 18:28	1
Phenanthrene	2.6	J	4.7	0.41	ug/L		04/10/14 07:24	04/15/14 18:28	1
Phenol	4.4	J	4.7	0.37	ug/L		04/10/14 07:24	04/15/14 18:28	1
Pyrene	1.0	J	4.7	0.32	ug/L		04/10/14 07:24	04/15/14 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		52 - 132	04/10/14 07:24	04/15/14 18:28	1
2-Fluorobiphenyl	83		48 - 120	04/10/14 07:24	04/15/14 18:28	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: TW-2

Lab Sample ID: 480-57543-8

Date Collected: 04/08/14 13:47

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		20 - 120	04/10/14 07:24	04/15/14 18:28	1
Nitrobenzene-d5	83		46 - 120	04/10/14 07:24	04/15/14 18:28	1
Phenol-d5	37		16 - 120	04/10/14 07:24	04/15/14 18:28	1
p-Terphenyl-d14	35	X	67 - 150	04/10/14 07:24	04/15/14 18:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	33.3		0.20		mg/L		04/10/14 14:05	04/11/14 20:57	1
Antimony	ND		0.020		mg/L		04/10/14 14:05	04/11/14 20:57	1
Arsenic	0.047		0.015		mg/L		04/10/14 14:05	04/11/14 20:57	1
Barium	0.95		0.0020		mg/L		04/10/14 14:05	04/11/14 20:57	1
Beryllium	0.0021		0.0020		mg/L		04/10/14 14:05	04/11/14 20:57	1
Cadmium	0.0035		0.0020		mg/L		04/10/14 14:05	04/11/14 20:57	1
Calcium	662		0.50		mg/L		04/10/14 14:05	04/11/14 20:57	1
Chromium	0.062		0.0040		mg/L		04/10/14 14:05	04/11/14 20:57	1
Cobalt	1.4		0.0040		mg/L		04/10/14 14:05	04/11/14 20:57	1
Copper	0.14		0.010		mg/L		04/10/14 14:05	04/11/14 20:57	1
Iron	59.8		0.050		mg/L		04/10/14 14:05	04/11/14 20:57	1
Lead	0.15		0.010		mg/L		04/10/14 14:05	04/11/14 20:57	1
Magnesium	144		0.20		mg/L		04/10/14 14:05	04/11/14 20:57	1
Manganese	4.2		0.0030		mg/L		04/10/14 14:05	04/11/14 20:57	1
Nickel	0.16		0.010		mg/L		04/10/14 14:05	04/11/14 20:57	1
Potassium	30.5		0.50		mg/L		04/10/14 14:05	04/11/14 20:57	1
Selenium	ND		0.025		mg/L		04/10/14 14:05	04/11/14 20:57	1
Silver	ND		0.0060		mg/L		04/10/14 14:05	04/11/14 20:57	1
Sodium	352		1.0		mg/L		04/10/14 14:05	04/11/14 20:57	1
Thallium	ND		0.020		mg/L		04/10/14 14:05	04/11/14 20:57	1
Vanadium	0.068		0.0050		mg/L		04/10/14 14:05	04/11/14 20:57	1
Zinc	0.82		0.010		mg/L		04/10/14 14:05	04/11/14 20:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0023	B	0.00020		mg/L		04/11/14 10:25	04/11/14 14:11	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: TW-3

Lab Sample ID: 480-57543-9

Date Collected: 04/08/14 14:25

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			04/10/14 13:16	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			04/10/14 13:16	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			04/10/14 13:16	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			04/10/14 13:16	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			04/10/14 13:16	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			04/10/14 13:16	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			04/10/14 13:16	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			04/10/14 13:16	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			04/10/14 13:16	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			04/10/14 13:16	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			04/10/14 13:16	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			04/10/14 13:16	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			04/10/14 13:16	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			04/10/14 13:16	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			04/10/14 13:16	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			04/10/14 13:16	2
2-Butanone (MEK)	ND		20	2.6	ug/L			04/10/14 13:16	2
2-Hexanone	ND		10	2.5	ug/L			04/10/14 13:16	2
4-Isopropyltoluene	ND		2.0	0.62	ug/L			04/10/14 13:16	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			04/10/14 13:16	2
Acetone	9.2	J	20	6.0	ug/L			04/10/14 13:16	2
Benzene	ND		2.0	0.82	ug/L			04/10/14 13:16	2
Bromodichloromethane	ND		2.0	0.78	ug/L			04/10/14 13:16	2
Bromoform	ND		2.0	0.52	ug/L			04/10/14 13:16	2
Bromomethane	ND		2.0	1.4	ug/L			04/10/14 13:16	2
Carbon disulfide	ND		2.0	0.38	ug/L			04/10/14 13:16	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			04/10/14 13:16	2
Chlorobenzene	ND		2.0	1.5	ug/L			04/10/14 13:16	2
Chloroethane	ND		2.0	0.64	ug/L			04/10/14 13:16	2
Chloroform	ND		2.0	0.68	ug/L			04/10/14 13:16	2
Chloromethane	ND		2.0	0.70	ug/L			04/10/14 13:16	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			04/10/14 13:16	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			04/10/14 13:16	2
Cyclohexane	ND		2.0	0.36	ug/L			04/10/14 13:16	2
Dibromochloromethane	ND		2.0	0.64	ug/L			04/10/14 13:16	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			04/10/14 13:16	2
Ethylbenzene	ND		2.0	1.5	ug/L			04/10/14 13:16	2
Isopropylbenzene	ND		2.0	1.6	ug/L			04/10/14 13:16	2
m,p-Xylene	ND		4.0	1.3	ug/L			04/10/14 13:16	2
Methyl acetate	ND		5.0	1.0	ug/L			04/10/14 13:16	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			04/10/14 13:16	2
Methylcyclohexane	ND		2.0	0.32	ug/L			04/10/14 13:16	2
Methylene Chloride	ND		2.0	0.88	ug/L			04/10/14 13:16	2
n-Butylbenzene	ND		2.0	1.3	ug/L			04/10/14 13:16	2
N-Propylbenzene	ND		2.0	1.4	ug/L			04/10/14 13:16	2
o-Xylene	ND		2.0	1.5	ug/L			04/10/14 13:16	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			04/10/14 13:16	2
Styrene	ND		2.0	1.5	ug/L			04/10/14 13:16	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			04/10/14 13:16	2

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: TW-3

Lab Sample ID: 480-57543-9

Date Collected: 04/08/14 14:25

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.78	J	2.0	0.72	ug/L			04/10/14 13:16	2
Toluene	ND		2.0	1.0	ug/L			04/10/14 13:16	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			04/10/14 13:16	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			04/10/14 13:16	2
Trichloroethene	ND		2.0	0.92	ug/L			04/10/14 13:16	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			04/10/14 13:16	2
Vinyl chloride	ND		2.0	1.8	ug/L			04/10/14 13:16	2
Xylenes, Total	ND		4.0	1.3	ug/L			04/10/14 13:16	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137					04/10/14 13:16	2
4-Bromofluorobenzene (Surr)	103		73 - 120					04/10/14 13:16	2
Toluene-d8 (Surr)	103		71 - 126					04/10/14 13:16	2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.4	0.52	ug/L		04/10/14 07:24	04/15/14 18:52	1
2,4,6-Trichlorophenol	ND		5.4	0.66	ug/L		04/10/14 07:24	04/15/14 18:52	1
2,4-Dichlorophenol	ND		5.4	0.55	ug/L		04/10/14 07:24	04/15/14 18:52	1
2,4-Dimethylphenol	ND		5.4	0.54	ug/L		04/10/14 07:24	04/15/14 18:52	1
2,4-Dinitrophenol	ND		11	2.4	ug/L		04/10/14 07:24	04/15/14 18:52	1
2,4-Dinitrotoluene	ND		5.4	0.49	ug/L		04/10/14 07:24	04/15/14 18:52	1
2,6-Dinitrotoluene	ND		5.4	0.43	ug/L		04/10/14 07:24	04/15/14 18:52	1
2-Chloronaphthalene	ND		5.4	0.50	ug/L		04/10/14 07:24	04/15/14 18:52	1
2-Chlorophenol	ND		5.4	0.58	ug/L		04/10/14 07:24	04/15/14 18:52	1
2-Methylnaphthalene	ND		5.4	0.65	ug/L		04/10/14 07:24	04/15/14 18:52	1
2-Methylphenol	ND		5.4	0.43	ug/L		04/10/14 07:24	04/15/14 18:52	1
2-Nitroaniline	ND		11	0.46	ug/L		04/10/14 07:24	04/15/14 18:52	1
2-Nitrophenol	ND		5.4	0.52	ug/L		04/10/14 07:24	04/15/14 18:52	1
3,3'-Dichlorobenzidine	ND		5.4	0.43	ug/L		04/10/14 07:24	04/15/14 18:52	1
3-Nitroaniline	ND		11	0.52	ug/L		04/10/14 07:24	04/15/14 18:52	1
4,6-Dinitro-2-methylphenol	ND		11	2.4	ug/L		04/10/14 07:24	04/15/14 18:52	1
4-Bromophenyl phenyl ether	ND		5.4	0.49	ug/L		04/10/14 07:24	04/15/14 18:52	1
4-Chloro-3-methylphenol	ND		5.4	0.49	ug/L		04/10/14 07:24	04/15/14 18:52	1
4-Chloroaniline	ND		5.4	0.64	ug/L		04/10/14 07:24	04/15/14 18:52	1
4-Chlorophenyl phenyl ether	ND		5.4	0.38	ug/L		04/10/14 07:24	04/15/14 18:52	1
4-Methylphenol	ND		11	0.39	ug/L		04/10/14 07:24	04/15/14 18:52	1
4-Nitroaniline	ND		11	0.27	ug/L		04/10/14 07:24	04/15/14 18:52	1
4-Nitrophenol	ND		11	1.7	ug/L		04/10/14 07:24	04/15/14 18:52	1
Acenaphthene	ND		5.4	0.45	ug/L		04/10/14 07:24	04/15/14 18:52	1
Acenaphthylene	ND		5.4	0.41	ug/L		04/10/14 07:24	04/15/14 18:52	1
Acetophenone	ND		5.4	0.59	ug/L		04/10/14 07:24	04/15/14 18:52	1
Anthracene	ND		5.4	0.30	ug/L		04/10/14 07:24	04/15/14 18:52	1
Atrazine	ND		5.4	0.50	ug/L		04/10/14 07:24	04/15/14 18:52	1
Benzaldehyde	0.61	J B	5.4	0.29	ug/L		04/10/14 07:24	04/15/14 18:52	1
Benzo(a)anthracene	0.80	J	5.4	0.39	ug/L		04/10/14 07:24	04/15/14 18:52	1
Benzo(a)pyrene	0.87	J	5.4	0.51	ug/L		04/10/14 07:24	04/15/14 18:52	1
Benzo(b)fluoranthene	1.2	J	5.4	0.37	ug/L		04/10/14 07:24	04/15/14 18:52	1
Benzo(g,h,i)perylene	ND		5.4	0.38	ug/L		04/10/14 07:24	04/15/14 18:52	1
Benzo(k)fluoranthene	ND		5.4	0.79	ug/L		04/10/14 07:24	04/15/14 18:52	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: TW-3

Lab Sample ID: 480-57543-9

Date Collected: 04/08/14 14:25

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.4	0.71	ug/L		04/10/14 07:24	04/15/14 18:52	1
bis (2-chloroisopropyl) ether	ND		5.4	0.57	ug/L		04/10/14 07:24	04/15/14 18:52	1
Bis(2-chloroethoxy)methane	ND		5.4	0.38	ug/L		04/10/14 07:24	04/15/14 18:52	1
Bis(2-chloroethyl)ether	ND		5.4	0.43	ug/L		04/10/14 07:24	04/15/14 18:52	1
Bis(2-ethylhexyl) phthalate	3.1	J	5.4	2.0	ug/L		04/10/14 07:24	04/15/14 18:52	1
Butyl benzyl phthalate	ND		5.4	0.46	ug/L		04/10/14 07:24	04/15/14 18:52	1
Caprolactam	ND		5.4	2.4	ug/L		04/10/14 07:24	04/15/14 18:52	1
Carbazole	ND		5.4	0.33	ug/L		04/10/14 07:24	04/15/14 18:52	1
Chrysene	0.56	J	5.4	0.36	ug/L		04/10/14 07:24	04/15/14 18:52	1
Dibenz(a,h)anthracene	ND		5.4	0.46	ug/L		04/10/14 07:24	04/15/14 18:52	1
Dibenzofuran	ND		11	0.55	ug/L		04/10/14 07:24	04/15/14 18:52	1
Diethyl phthalate	0.91	J	5.4	0.24	ug/L		04/10/14 07:24	04/15/14 18:52	1
Dimethyl phthalate	ND		5.4	0.39	ug/L		04/10/14 07:24	04/15/14 18:52	1
Di-n-butyl phthalate	1.4	J	5.4	0.34	ug/L		04/10/14 07:24	04/15/14 18:52	1
Di-n-octyl phthalate	ND		5.4	0.51	ug/L		04/10/14 07:24	04/15/14 18:52	1
Fluoranthene	1.4	J	5.4	0.43	ug/L		04/10/14 07:24	04/15/14 18:52	1
Fluorene	ND		5.4	0.39	ug/L		04/10/14 07:24	04/15/14 18:52	1
Hexachlorobenzene	ND		5.4	0.55	ug/L		04/10/14 07:24	04/15/14 18:52	1
Hexachlorobutadiene	ND		5.4	0.74	ug/L		04/10/14 07:24	04/15/14 18:52	1
Hexachlorocyclopentadiene	ND		5.4	0.64	ug/L		04/10/14 07:24	04/15/14 18:52	1
Hexachloroethane	ND		5.4	0.64	ug/L		04/10/14 07:24	04/15/14 18:52	1
Indeno(1,2,3-cd)pyrene	ND		5.4	0.51	ug/L		04/10/14 07:24	04/15/14 18:52	1
Isophorone	ND		5.4	0.47	ug/L		04/10/14 07:24	04/15/14 18:52	1
Naphthalene	ND		5.4	0.83	ug/L		04/10/14 07:24	04/15/14 18:52	1
Nitrobenzene	ND		5.4	0.32	ug/L		04/10/14 07:24	04/15/14 18:52	1
N-Nitrosodi-n-propylamine	ND		5.4	0.59	ug/L		04/10/14 07:24	04/15/14 18:52	1
N-Nitrosodiphenylamine	ND	*	5.4	0.55	ug/L		04/10/14 07:24	04/15/14 18:52	1
Pentachlorophenol	ND		11	2.4	ug/L		04/10/14 07:24	04/15/14 18:52	1
Phenanthrene	0.93	J	5.4	0.48	ug/L		04/10/14 07:24	04/15/14 18:52	1
Phenol	0.49	J	5.4	0.42	ug/L		04/10/14 07:24	04/15/14 18:52	1
Pyrene	1.0	J	5.4	0.37	ug/L		04/10/14 07:24	04/15/14 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	27	X	52 - 132	04/10/14 07:24	04/15/14 18:52	1
2-Fluorobiphenyl	56		48 - 120	04/10/14 07:24	04/15/14 18:52	1
2-Fluorophenol	14	X	20 - 120	04/10/14 07:24	04/15/14 18:52	1
Nitrobenzene-d5	62		46 - 120	04/10/14 07:24	04/15/14 18:52	1
Phenol-d5	14	X	16 - 120	04/10/14 07:24	04/15/14 18:52	1
p-Terphenyl-d14	26	X	67 - 150	04/10/14 07:24	04/15/14 18:52	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	439		0.40		mg/L		04/10/14 14:05	04/11/14 21:00	1
Antimony	ND		0.040		mg/L		04/10/14 14:05	04/11/14 21:00	1
Arsenic	0.16		0.030		mg/L		04/10/14 14:05	04/11/14 21:00	1
Barium	15.3		0.0040		mg/L		04/10/14 14:05	04/11/14 21:00	1
Beryllium	0.018		0.0040		mg/L		04/10/14 14:05	04/11/14 21:00	1
Cadmium	0.022		0.0040		mg/L		04/10/14 14:05	04/11/14 21:00	1
Calcium	5000		5.0		mg/L		04/10/14 14:05	04/15/14 10:27	5
Chromium	0.52		0.0080		mg/L		04/10/14 14:05	04/11/14 21:00	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: TW-3

Lab Sample ID: 480-57543-9

Date Collected: 04/08/14 14:25

Matrix: Water

Date Received: 04/09/14 12:20

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.28		0.0080		mg/L		04/10/14 14:05	04/11/14 21:00	1
Copper	3.0		0.020		mg/L		04/10/14 14:05	04/11/14 21:00	1
Iron	404		0.10		mg/L		04/10/14 14:05	04/11/14 21:00	1
Lead	8.7		0.020		mg/L		04/10/14 14:05	04/11/14 21:00	1
Magnesium	372		0.40		mg/L		04/10/14 14:05	04/11/14 21:00	1
Manganese	46.8		0.0060		mg/L		04/10/14 14:05	04/11/14 21:00	1
Nickel	0.76		0.020		mg/L		04/10/14 14:05	04/11/14 21:00	1
Potassium	120		1.0		mg/L		04/10/14 14:05	04/11/14 21:00	1
Selenium	ND		0.050		mg/L		04/10/14 14:05	04/11/14 21:00	1
Silver	0.019		0.012		mg/L		04/10/14 14:05	04/11/14 21:00	1
Sodium	46.4		2.0		mg/L		04/10/14 14:05	04/11/14 21:00	1
Thallium	ND		0.040		mg/L		04/10/14 14:05	04/11/14 21:00	1
Vanadium	0.65		0.010		mg/L		04/10/14 14:05	04/11/14 21:00	1
Zinc	7.6		0.020		mg/L		04/10/14 14:05	04/11/14 21:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030	B	0.0010		mg/L		04/11/14 10:25	04/11/14 14:10	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: MW-3

Lab Sample ID: 480-57543-10

Date Collected: 04/08/14 14:28

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/10/14 13:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/10/14 13:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/10/14 13:40	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/10/14 13:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/10/14 13:40	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/10/14 13:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/10/14 13:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/10/14 13:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/10/14 13:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/10/14 13:40	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/10/14 13:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/10/14 13:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/10/14 13:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/10/14 13:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/10/14 13:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/10/14 13:40	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/10/14 13:40	1
2-Hexanone	ND		5.0	1.2	ug/L			04/10/14 13:40	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			04/10/14 13:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/10/14 13:40	1
Acetone	ND		10	3.0	ug/L			04/10/14 13:40	1
Benzene	ND		1.0	0.41	ug/L			04/10/14 13:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/10/14 13:40	1
Bromoform	ND		1.0	0.26	ug/L			04/10/14 13:40	1
Bromomethane	ND		1.0	0.69	ug/L			04/10/14 13:40	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/10/14 13:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/10/14 13:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/10/14 13:40	1
Chloroethane	ND		1.0	0.32	ug/L			04/10/14 13:40	1
Chloroform	ND		1.0	0.34	ug/L			04/10/14 13:40	1
Chloromethane	ND		1.0	0.35	ug/L			04/10/14 13:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/10/14 13:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/10/14 13:40	1
Cyclohexane	ND		1.0	0.18	ug/L			04/10/14 13:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/10/14 13:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/10/14 13:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/10/14 13:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/10/14 13:40	1
m,p-Xylene	ND		2.0	0.66	ug/L			04/10/14 13:40	1
Methyl acetate	ND		2.5	0.50	ug/L			04/10/14 13:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/10/14 13:40	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/10/14 13:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/10/14 13:40	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/10/14 13:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/10/14 13:40	1
o-Xylene	ND		1.0	0.76	ug/L			04/10/14 13:40	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			04/10/14 13:40	1
Styrene	ND		1.0	0.73	ug/L			04/10/14 13:40	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			04/10/14 13:40	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: MW-3

Lab Sample ID: 480-57543-10

Date Collected: 04/08/14 14:28

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			04/10/14 13:40	1
Toluene	ND		1.0	0.51	ug/L			04/10/14 13:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/10/14 13:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/10/14 13:40	1
Trichloroethene	ND		1.0	0.46	ug/L			04/10/14 13:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/10/14 13:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/10/14 13:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/10/14 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		04/10/14 13:40	1
4-Bromofluorobenzene (Surr)	103		73 - 120		04/10/14 13:40	1
Toluene-d8 (Surr)	103		71 - 126		04/10/14 13:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		23	2.2	ug/L		04/10/14 07:24	04/16/14 12:20	5
2,4,6-Trichlorophenol	ND		23	2.8	ug/L		04/10/14 07:24	04/16/14 12:20	5
2,4-Dichlorophenol	ND		23	2.3	ug/L		04/10/14 07:24	04/16/14 12:20	5
2,4-Dimethylphenol	ND		23	2.3	ug/L		04/10/14 07:24	04/16/14 12:20	5
2,4-Dinitrophenol	ND		46	10	ug/L		04/10/14 07:24	04/16/14 12:20	5
2,4-Dinitrotoluene	ND		23	2.1	ug/L		04/10/14 07:24	04/16/14 12:20	5
2,6-Dinitrotoluene	ND		23	1.8	ug/L		04/10/14 07:24	04/16/14 12:20	5
2-Chloronaphthalene	ND		23	2.1	ug/L		04/10/14 07:24	04/16/14 12:20	5
2-Chlorophenol	ND		23	2.4	ug/L		04/10/14 07:24	04/16/14 12:20	5
2-Methylnaphthalene	ND		23	2.8	ug/L		04/10/14 07:24	04/16/14 12:20	5
2-Methylphenol	ND		23	1.8	ug/L		04/10/14 07:24	04/16/14 12:20	5
2-Nitroaniline	ND		46	1.9	ug/L		04/10/14 07:24	04/16/14 12:20	5
2-Nitrophenol	ND		23	2.2	ug/L		04/10/14 07:24	04/16/14 12:20	5
3,3'-Dichlorobenzidine	ND		23	1.8	ug/L		04/10/14 07:24	04/16/14 12:20	5
3-Nitroaniline	ND		46	2.2	ug/L		04/10/14 07:24	04/16/14 12:20	5
4,6-Dinitro-2-methylphenol	ND		46	10	ug/L		04/10/14 07:24	04/16/14 12:20	5
4-Bromophenyl phenyl ether	ND		23	2.1	ug/L		04/10/14 07:24	04/16/14 12:20	5
4-Chloro-3-methylphenol	ND		23	2.1	ug/L		04/10/14 07:24	04/16/14 12:20	5
4-Chloroaniline	ND		23	2.7	ug/L		04/10/14 07:24	04/16/14 12:20	5
4-Chlorophenyl phenyl ether	ND		23	1.6	ug/L		04/10/14 07:24	04/16/14 12:20	5
4-Methylphenol	ND		46	1.7	ug/L		04/10/14 07:24	04/16/14 12:20	5
4-Nitroaniline	ND		46	1.1	ug/L		04/10/14 07:24	04/16/14 12:20	5
4-Nitrophenol	ND		46	7.0	ug/L		04/10/14 07:24	04/16/14 12:20	5
Acenaphthene	ND		23	1.9	ug/L		04/10/14 07:24	04/16/14 12:20	5
Acenaphthylene	ND		23	1.7	ug/L		04/10/14 07:24	04/16/14 12:20	5
Acetophenone	ND		23	2.5	ug/L		04/10/14 07:24	04/16/14 12:20	5
Anthracene	ND		23	1.3	ug/L		04/10/14 07:24	04/16/14 12:20	5
Atrazine	ND		23	2.1	ug/L		04/10/14 07:24	04/16/14 12:20	5
Benzaldehyde	ND		23	1.2	ug/L		04/10/14 07:24	04/16/14 12:20	5
Benzo(a)anthracene	ND		23	1.7	ug/L		04/10/14 07:24	04/16/14 12:20	5
Benzo(a)pyrene	ND		23	2.2	ug/L		04/10/14 07:24	04/16/14 12:20	5
Benzo(b)fluoranthene	2.3 J		23	1.6	ug/L		04/10/14 07:24	04/16/14 12:20	5
Benzo(g,h,i)perylene	ND		23	1.6	ug/L		04/10/14 07:24	04/16/14 12:20	5
Benzo(k)fluoranthene	ND		23	3.4	ug/L		04/10/14 07:24	04/16/14 12:20	5

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: MW-3

Lab Sample ID: 480-57543-10

Date Collected: 04/08/14 14:28

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		23	3.0	ug/L		04/10/14 07:24	04/16/14 12:20	5
bis (2-chloroisopropyl) ether	ND		23	2.4	ug/L		04/10/14 07:24	04/16/14 12:20	5
Bis(2-chloroethoxy)methane	ND		23	1.6	ug/L		04/10/14 07:24	04/16/14 12:20	5
Bis(2-chloroethyl)ether	ND		23	1.8	ug/L		04/10/14 07:24	04/16/14 12:20	5
Bis(2-ethylhexyl) phthalate	ND		23	8.3	ug/L		04/10/14 07:24	04/16/14 12:20	5
Butyl benzyl phthalate	ND		23	1.9	ug/L		04/10/14 07:24	04/16/14 12:20	5
Caprolactam	ND		23	10	ug/L		04/10/14 07:24	04/16/14 12:20	5
Carbazole	ND		23	1.4	ug/L		04/10/14 07:24	04/16/14 12:20	5
Chrysene	ND		23	1.5	ug/L		04/10/14 07:24	04/16/14 12:20	5
Dibenz(a,h)anthracene	ND		23	1.9	ug/L		04/10/14 07:24	04/16/14 12:20	5
Dibenzofuran	ND		46	2.3	ug/L		04/10/14 07:24	04/16/14 12:20	5
Diethyl phthalate	ND		23	1.0	ug/L		04/10/14 07:24	04/16/14 12:20	5
Dimethyl phthalate	ND		23	1.7	ug/L		04/10/14 07:24	04/16/14 12:20	5
Di-n-butyl phthalate	ND		23	1.4	ug/L		04/10/14 07:24	04/16/14 12:20	5
Di-n-octyl phthalate	ND		23	2.2	ug/L		04/10/14 07:24	04/16/14 12:20	5
Fluoranthene	2.6	J	23	1.8	ug/L		04/10/14 07:24	04/16/14 12:20	5
Fluorene	ND		23	1.7	ug/L		04/10/14 07:24	04/16/14 12:20	5
Hexachlorobenzene	ND		23	2.3	ug/L		04/10/14 07:24	04/16/14 12:20	5
Hexachlorobutadiene	ND		23	3.1	ug/L		04/10/14 07:24	04/16/14 12:20	5
Hexachlorocyclopentadiene	ND		23	2.7	ug/L		04/10/14 07:24	04/16/14 12:20	5
Hexachloroethane	ND		23	2.7	ug/L		04/10/14 07:24	04/16/14 12:20	5
Indeno(1,2,3-cd)pyrene	ND		23	2.2	ug/L		04/10/14 07:24	04/16/14 12:20	5
Isophorone	ND		23	2.0	ug/L		04/10/14 07:24	04/16/14 12:20	5
Naphthalene	ND		23	3.5	ug/L		04/10/14 07:24	04/16/14 12:20	5
Nitrobenzene	ND		23	1.3	ug/L		04/10/14 07:24	04/16/14 12:20	5
N-Nitrosodi-n-propylamine	ND		23	2.5	ug/L		04/10/14 07:24	04/16/14 12:20	5
N-Nitrosodiphenylamine	ND	*	23	2.3	ug/L		04/10/14 07:24	04/16/14 12:20	5
Pentachlorophenol	ND		46	10	ug/L		04/10/14 07:24	04/16/14 12:20	5
Phenanthrene	ND		23	2.0	ug/L		04/10/14 07:24	04/16/14 12:20	5
Phenol	ND		23	1.8	ug/L		04/10/14 07:24	04/16/14 12:20	5
Pyrene	1.6	J	23	1.6	ug/L		04/10/14 07:24	04/16/14 12:20	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		52 - 132	04/10/14 07:24	04/16/14 12:20	5
2-Fluorobiphenyl	102		48 - 120	04/10/14 07:24	04/16/14 12:20	5
2-Fluorophenol	58		20 - 120	04/10/14 07:24	04/16/14 12:20	5
Nitrobenzene-d5	104		46 - 120	04/10/14 07:24	04/16/14 12:20	5
Phenol-d5	51		16 - 120	04/10/14 07:24	04/16/14 12:20	5
p-Terphenyl-d14	78		67 - 150	04/10/14 07:24	04/16/14 12:20	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.046	0.0084	ug/L		04/11/14 10:18	04/12/14 11:20	1
4,4'-DDE	ND		0.046	0.011	ug/L		04/11/14 10:18	04/12/14 11:20	1
4,4'-DDT	ND		0.046	0.010	ug/L		04/11/14 10:18	04/12/14 11:20	1
Aldrin	ND		0.046	0.0074	ug/L		04/11/14 10:18	04/12/14 11:20	1
alpha-BHC	0.020	J	0.046	0.0071	ug/L		04/11/14 10:18	04/12/14 11:20	1
alpha-Chlordane	ND		0.046	0.014	ug/L		04/11/14 10:18	04/12/14 11:20	1
beta-BHC	ND		0.046	0.023	ug/L		04/11/14 10:18	04/12/14 11:20	1
delta-BHC	ND		0.046	0.0092	ug/L		04/11/14 10:18	04/12/14 11:20	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: MW-3

Lab Sample ID: 480-57543-10

Date Collected: 04/08/14 14:28

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		0.046	0.0090	ug/L		04/11/14 10:18	04/12/14 11:20	1
Endosulfan I	ND		0.046	0.010	ug/L		04/11/14 10:18	04/12/14 11:20	1
Endosulfan II	ND		0.046	0.011	ug/L		04/11/14 10:18	04/12/14 11:20	1
Endosulfan sulfate	ND		0.046	0.014	ug/L		04/11/14 10:18	04/12/14 11:20	1
Endrin	ND		0.046	0.013	ug/L		04/11/14 10:18	04/12/14 11:20	1
Endrin aldehyde	ND		0.046	0.015	ug/L		04/11/14 10:18	04/12/14 11:20	1
Endrin ketone	ND		0.046	0.011	ug/L		04/11/14 10:18	04/12/14 11:20	1
gamma-BHC (Lindane)	0.012	J	0.046	0.0073	ug/L		04/11/14 10:18	04/12/14 11:20	1
gamma-Chlordane	ND		0.046	0.010	ug/L		04/11/14 10:18	04/12/14 11:20	1
Heptachlor	0.041	J	0.046	0.0078	ug/L		04/11/14 10:18	04/12/14 11:20	1
Heptachlor epoxide	ND		0.046	0.0068	ug/L		04/11/14 10:18	04/12/14 11:20	1
Methoxychlor	ND		0.046	0.013	ug/L		04/11/14 10:18	04/12/14 11:20	1
Toxaphene	ND		0.46	0.11	ug/L		04/11/14 10:18	04/12/14 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		20 - 120	04/11/14 10:18	04/12/14 11:20	1
DCB Decachlorobiphenyl	43		20 - 120	04/11/14 10:18	04/12/14 11:20	1
Tetrachloro-m-xylene	81		36 - 120	04/11/14 10:18	04/12/14 11:20	1
Tetrachloro-m-xylene	80		36 - 120	04/11/14 10:18	04/12/14 11:20	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10.0		0.20		mg/L		04/10/14 14:05	04/11/14 21:03	1
Antimony	ND		0.020		mg/L		04/10/14 14:05	04/11/14 21:03	1
Arsenic	ND		0.015		mg/L		04/10/14 14:05	04/11/14 21:03	1
Barium	0.38		0.0020		mg/L		04/10/14 14:05	04/11/14 21:03	1
Beryllium	ND		0.0020		mg/L		04/10/14 14:05	04/11/14 21:03	1
Cadmium	ND		0.0020		mg/L		04/10/14 14:05	04/11/14 21:03	1
Calcium	121		0.50		mg/L		04/10/14 14:05	04/11/14 21:03	1
Chromium	0.015		0.0040		mg/L		04/10/14 14:05	04/11/14 21:03	1
Cobalt	0.0049		0.0040		mg/L		04/10/14 14:05	04/11/14 21:03	1
Copper	0.027		0.010		mg/L		04/10/14 14:05	04/11/14 21:03	1
Iron	10.4		0.050		mg/L		04/10/14 14:05	04/11/14 21:03	1
Lead	0.21		0.010		mg/L		04/10/14 14:05	04/11/14 21:03	1
Magnesium	53.7		0.20		mg/L		04/10/14 14:05	04/11/14 21:03	1
Manganese	0.17		0.0030		mg/L		04/10/14 14:05	04/11/14 21:03	1
Nickel	0.011		0.010		mg/L		04/10/14 14:05	04/11/14 21:03	1
Potassium	7.3		0.50		mg/L		04/10/14 14:05	04/11/14 21:03	1
Selenium	ND		0.025		mg/L		04/10/14 14:05	04/11/14 21:03	1
Silver	ND		0.0060		mg/L		04/10/14 14:05	04/11/14 21:03	1
Sodium	82.1		1.0		mg/L		04/10/14 14:05	04/11/14 21:03	1
Thallium	ND		0.020		mg/L		04/10/14 14:05	04/11/14 21:03	1
Vanadium	0.020		0.0050		mg/L		04/10/14 14:05	04/11/14 21:03	1
Zinc	0.23		0.010		mg/L		04/10/14 14:05	04/11/14 21:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		04/11/14 10:25	04/11/14 14:08	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-57543-11

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/10/14 03:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/10/14 03:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/10/14 03:05	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/10/14 03:05	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/10/14 03:05	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/10/14 03:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/10/14 03:05	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/10/14 03:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/10/14 03:05	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/10/14 03:05	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/10/14 03:05	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/10/14 03:05	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/10/14 03:05	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/10/14 03:05	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/10/14 03:05	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/10/14 03:05	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/10/14 03:05	1
2-Hexanone	ND		5.0	1.2	ug/L			04/10/14 03:05	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			04/10/14 03:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/10/14 03:05	1
Acetone	ND		10	3.0	ug/L			04/10/14 03:05	1
Benzene	ND		1.0	0.41	ug/L			04/10/14 03:05	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/10/14 03:05	1
Bromoform	ND		1.0	0.26	ug/L			04/10/14 03:05	1
Bromomethane	ND		1.0	0.69	ug/L			04/10/14 03:05	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/10/14 03:05	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/10/14 03:05	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/10/14 03:05	1
Chloroethane	ND		1.0	0.32	ug/L			04/10/14 03:05	1
Chloroform	ND		1.0	0.34	ug/L			04/10/14 03:05	1
Chloromethane	ND		1.0	0.35	ug/L			04/10/14 03:05	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/10/14 03:05	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/10/14 03:05	1
Cyclohexane	ND		1.0	0.18	ug/L			04/10/14 03:05	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/10/14 03:05	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/10/14 03:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/10/14 03:05	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/10/14 03:05	1
m,p-Xylene	ND		2.0	0.66	ug/L			04/10/14 03:05	1
Methyl acetate	ND		2.5	0.50	ug/L			04/10/14 03:05	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/10/14 03:05	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/10/14 03:05	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/10/14 03:05	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/10/14 03:05	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/10/14 03:05	1
o-Xylene	ND		1.0	0.76	ug/L			04/10/14 03:05	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			04/10/14 03:05	1
Styrene	ND		1.0	0.73	ug/L			04/10/14 03:05	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			04/10/14 03:05	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-57543-11

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 12:20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			04/10/14 03:05	1
Toluene	ND		1.0	0.51	ug/L			04/10/14 03:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/10/14 03:05	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/10/14 03:05	1
Trichloroethene	ND		1.0	0.46	ug/L			04/10/14 03:05	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/10/14 03:05	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/10/14 03:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/10/14 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		04/10/14 03:05	1
4-Bromofluorobenzene (Surr)	103		73 - 120		04/10/14 03:05	1
Toluene-d8 (Surr)	101		71 - 126		04/10/14 03:05	1

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-13 (6-8)

Date Collected: 04/08/14 13:05

Date Received: 04/09/14 12:20

Lab Sample ID: 480-57543-1

Matrix: Solid

Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			174772	04/09/14 14:46	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	174702	04/09/14 18:17	CDC	TAL BUF
Total/NA	Prep	3550C			174901	04/10/14 08:28	CAM	TAL BUF
Total/NA	Analysis	8270D		1	175383	04/12/14 07:47	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	174823	04/09/14 22:23	CMK	TAL BUF

Client Sample ID: SB-14 (0.3-2.0)

Date Collected: 04/08/14 09:28

Date Received: 04/09/14 12:20

Lab Sample ID: 480-57543-2

Matrix: Solid

Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174901	04/10/14 08:28	CAM	TAL BUF
Total/NA	Analysis	8270D		1	175383	04/12/14 08:10	ANM	TAL BUF
Total/NA	Prep	3550C			175027	04/10/14 15:16	JRL	TAL BUF
Total/NA	Analysis	8082A		1	175178	04/11/14 20:00	JMM	TAL BUF
Total/NA	Prep	3050B			174972	04/10/14 13:10	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175545	04/13/14 12:15	LMH	TAL BUF
Total/NA	Prep	7471B			174869	04/10/14 09:40	LRK	TAL BUF
Total/NA	Analysis	7471B		1	175020	04/10/14 12:23	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174823	04/09/14 22:23	CMK	TAL BUF

Client Sample ID: SB-14 (2-4)

Date Collected: 04/08/14 09:38

Date Received: 04/09/14 12:20

Lab Sample ID: 480-57543-3

Matrix: Solid

Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			174772	04/09/14 14:46	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	174702	04/09/14 18:43	CDC	TAL BUF
Total/NA	Prep	3550C			174901	04/10/14 08:28	CAM	TAL BUF
Total/NA	Analysis	8270D		1	175383	04/12/14 08:33	ANM	TAL BUF
Total/NA	Prep	3550C			175027	04/10/14 15:16	JRL	TAL BUF
Total/NA	Analysis	8082A		1	175178	04/11/14 20:15	JMM	TAL BUF
Total/NA	Prep	3050B			174972	04/10/14 13:10	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175545	04/13/14 12:17	LMH	TAL BUF
Total/NA	Prep	7471B			174869	04/10/14 09:40	LRK	TAL BUF
Total/NA	Analysis	7471B		1	175020	04/10/14 12:25	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174823	04/09/14 22:23	CMK	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-15 (0.2-2.0)

Lab Sample ID: 480-57543-4

Date Collected: 04/08/14 10:11

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174901	04/10/14 08:28	CAM	TAL BUF
Total/NA	Analysis	8270D		1	175383	04/12/14 08:56	ANM	TAL BUF
Total/NA	Prep	3550C			174898	04/10/14 08:19	CAM	TAL BUF
Total/NA	Analysis	8081B		10	175181	04/11/14 15:20	LMW	TAL BUF
Total/NA	Prep	3550C			175027	04/10/14 15:16	JRL	TAL BUF
Total/NA	Analysis	8082A		1	175178	04/11/14 20:29	JMM	TAL BUF
Total/NA	Prep	3050B			174972	04/10/14 13:10	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175545	04/13/14 12:28	LMH	TAL BUF
Total/NA	Prep	7471B			174869	04/10/14 09:40	LRK	TAL BUF
Total/NA	Analysis	7471B		1	175020	04/10/14 12:27	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174823	04/09/14 22:23	CMK	TAL BUF

Client Sample ID: SB-15 (2-4)

Lab Sample ID: 480-57543-5

Date Collected: 04/08/14 10:20

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174901	04/10/14 08:28	CAM	TAL BUF
Total/NA	Analysis	8270D		1	175383	04/12/14 09:19	ANM	TAL BUF
Total/NA	Prep	3550C			175027	04/10/14 15:16	JRL	TAL BUF
Total/NA	Analysis	8082A		1	175178	04/11/14 20:44	JMM	TAL BUF
Total/NA	Prep	3050B			174972	04/10/14 13:10	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175545	04/13/14 12:31	LMH	TAL BUF
Total/NA	Prep	7471B			174869	04/10/14 09:40	LRK	TAL BUF
Total/NA	Analysis	7471B		1	175020	04/10/14 12:29	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174823	04/09/14 22:23	CMK	TAL BUF

Client Sample ID: SB-16 (0.2-2.0)

Lab Sample ID: 480-57543-6

Date Collected: 04/08/14 10:50

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174901	04/10/14 08:28	CAM	TAL BUF
Total/NA	Analysis	8270D		1	175383	04/12/14 09:44	ANM	TAL BUF
Total/NA	Prep	3550C			175027	04/10/14 15:16	JRL	TAL BUF
Total/NA	Analysis	8082A		1	175178	04/11/14 20:59	JMM	TAL BUF
Total/NA	Prep	3050B			174972	04/10/14 13:10	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175545	04/13/14 12:34	LMH	TAL BUF
Total/NA	Prep	7471B			174869	04/10/14 09:40	LRK	TAL BUF
Total/NA	Analysis	7471B		1	175020	04/10/14 12:30	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174823	04/09/14 22:23	CMK	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: SB-16 (2-4)

Lab Sample ID: 480-57543-7

Date Collected: 04/08/14 10:55

Matrix: Solid

Date Received: 04/09/14 12:20

Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			174901	04/10/14 08:28	CAM	TAL BUF
Total/NA	Analysis	8270D		1	175383	04/12/14 10:07	ANM	TAL BUF
Total/NA	Prep	3550C			175027	04/10/14 15:16	JRL	TAL BUF
Total/NA	Analysis	8082A		1	175178	04/11/14 21:14	JMM	TAL BUF
Total/NA	Prep	3050B			174972	04/10/14 13:10	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175545	04/13/14 12:37	LMH	TAL BUF
Total/NA	Prep	7471B			174869	04/10/14 09:40	LRK	TAL BUF
Total/NA	Analysis	7471B		1	175020	04/10/14 12:32	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	174823	04/09/14 22:23	CMK	TAL BUF

Client Sample ID: TW-2

Lab Sample ID: 480-57543-8

Date Collected: 04/08/14 13:47

Matrix: Water

Date Received: 04/09/14 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	174797	04/10/14 04:17	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	40	174902	04/10/14 14:04	RAL	TAL BUF
Total/NA	Prep	3510C			174858	04/10/14 07:24	MRB	TAL BUF
Total/NA	Analysis	8270D		1	175955	04/15/14 18:28	ANM	TAL BUF
Total/NA	Prep	3005A			174859	04/10/14 14:05	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175618	04/11/14 20:57	LMH	TAL BUF
Total/NA	Prep	7470A			175150	04/11/14 10:25	LRK	TAL BUF
Total/NA	Analysis	7470A		1	175621	04/11/14 14:11	LRK	TAL BUF

Client Sample ID: TW-3

Lab Sample ID: 480-57543-9

Date Collected: 04/08/14 14:25

Matrix: Water

Date Received: 04/09/14 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	174902	04/10/14 13:16	RAL	TAL BUF
Total/NA	Prep	3510C			174858	04/10/14 07:24	MRB	TAL BUF
Total/NA	Analysis	8270D		1	175955	04/15/14 18:52	ANM	TAL BUF
Total/NA	Prep	3005A			174859	04/10/14 14:05	EHD	TAL BUF
Total/NA	Analysis	6010C		5	176104	04/15/14 10:27	LMH	TAL BUF
Total/NA	Prep	3005A			174859	04/10/14 14:05	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175618	04/11/14 21:00	LMH	TAL BUF
Total/NA	Prep	7470A			175150	04/11/14 10:25	LRK	TAL BUF
Total/NA	Analysis	7470A		1	175621	04/11/14 14:10	LRK	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Client Sample ID: MW-3

Lab Sample ID: 480-57543-10

Date Collected: 04/08/14 14:28

Matrix: Water

Date Received: 04/09/14 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174902	04/10/14 13:40	RAL	TAL BUF
Total/NA	Prep	3510C			174858	04/10/14 07:24	MRB	TAL BUF
Total/NA	Analysis	8270D		5	176136	04/16/14 12:20	ANM	TAL BUF
Total/NA	Prep	3510C			175221	04/11/14 10:18	JRL	TAL BUF
Total/NA	Analysis	8081B		1	175435	04/12/14 11:20	LMW	TAL BUF
Total/NA	Prep	3005A			174859	04/10/14 14:05	EHD	TAL BUF
Total/NA	Analysis	6010C		1	175618	04/11/14 21:03	LMH	TAL BUF
Total/NA	Prep	7470A			175150	04/11/14 10:25	LRK	TAL BUF
Total/NA	Analysis	7470A		1	175621	04/11/14 14:08	LRK	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-57543-11

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174797	04/10/14 03:05	RAL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-57543-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57543-1	SB-13 (6-8)	Solid	04/08/14 13:05	04/09/14 12:20
480-57543-2	SB-14 (0.3-2.0)	Solid	04/08/14 09:28	04/09/14 12:20
480-57543-3	SB-14 (2-4)	Solid	04/08/14 09:38	04/09/14 12:20
480-57543-4	SB-15 (0.2-2.0)	Solid	04/08/14 10:11	04/09/14 12:20
480-57543-5	SB-15 (2-4)	Solid	04/08/14 10:20	04/09/14 12:20
480-57543-6	SB-16 (0.2-2.0)	Solid	04/08/14 10:50	04/09/14 12:20
480-57543-7	SB-16 (2-4)	Solid	04/08/14 10:55	04/09/14 12:20
480-57543-8	TW-2	Water	04/08/14 13:47	04/09/14 12:20
480-57543-9	TW-3	Water	04/08/14 14:25	04/09/14 12:20
480-57543-10	MW-3	Water	04/08/14 14:28	04/09/14 12:20
480-57543-11	TRIP BLANK	Water	04/08/14 00:00	04/09/14 12:20

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-57543-1

Login Number: 57543

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	False	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	bmtk
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-71973-1

Client Project/Site: Benchmark - 500 Seneca St.

For:

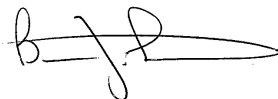
Benchmark Env. Eng. & Science, PLLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Mr. Nate Munley



Authorized for release by:

12/3/2014 4:05:43 PM

Brian Fischer, Manager of Project Management

(716)504-9835

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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Job ID: 480-71973-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-71973-1

Comments

No additional comments.

Receipt

The samples were received on 11/25/2014 1:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 216036 recovered outside control limits for the following analytes: Carbazole, 3-Nitroaniline. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 216036 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for batch 216036 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 8270D: The following sample(s) was diluted due to the nature of the sample matrix: BOILER SUMP CONTENTS (480-71973-7). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 216275 was outside the method criteria for the following analyte(s): 3-3'-Dichlorobenzidine and Benzidine. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The following samples required a dilution due to the matrix effects and are reported as elevated non-detections for all target analytes (Aroclors); MOTOR #1 WIPE #1 (480-71973-3), MOTOR #1 WIPE #2 (480-71973-4), MOTOR #2 WIPE #3 (480-71973-5), MOTOR #2 WIPE #4 (480-71973-6). The reported values represent the lowest limit that can be ascertained given the sample composition.

Method(s) 8082A: The following sample was diluted due to the nature of the sample matrix: PISTON ROOM COMP (480-71973-2). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: All sample primary data for analytical batch 216268 is reported from ZB-5 column, with the exception of surrogate, Decachlorobiphenyl, for which primary data is reported from the ZB-35 column.

Method(s) 8082A: All primary data for analytical batch 216274 is reported from the ZB-5 column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 216208.

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Job ID: 480-71973-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 3550C: The following sample:PISTON ROOM COMP (480-71973-2) was decanted prior to preparation .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: MOTOR #1 CONTENTS

Lab Sample ID: 480-71973-1

Date Collected: 11/25/14 10:05

Matrix: Water

Date Received: 11/25/14 13:25

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.46	0.16	ug/L		11/26/14 14:28	11/29/14 08:48	1
PCB-1221	ND		0.46	0.16	ug/L		11/26/14 14:28	11/29/14 08:48	1
PCB-1232	ND		0.46	0.16	ug/L		11/26/14 14:28	11/29/14 08:48	1
PCB-1242	ND		0.46	0.16	ug/L		11/26/14 14:28	11/29/14 08:48	1
PCB-1248	ND		0.46	0.16	ug/L		11/26/14 14:28	11/29/14 08:48	1
PCB-1254	ND		0.46	0.23	ug/L		11/26/14 14:28	11/29/14 08:48	1
PCB-1260	ND		0.46	0.23	ug/L		11/26/14 14:28	11/29/14 08:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	23		19 - 126	11/26/14 14:28	11/29/14 08:48	1
DCB Decachlorobiphenyl	26		19 - 126	11/26/14 14:28	11/29/14 08:48	1
Tetrachloro-m-xylene	50		23 - 127	11/26/14 14:28	11/29/14 08:48	1
Tetrachloro-m-xylene	71		23 - 127	11/26/14 14:28	11/29/14 08:48	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: PISTON ROOM COMP

Lab Sample ID: 480-71973-2

Date Collected: 11/25/14 10:45

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 43.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		7800	2100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2,4,6-Trichlorophenol	ND		7800	1600	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2,4-Dichlorophenol	ND		7800	820	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2,4-Dimethylphenol	ND		7800	1900	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2,4-Dinitrophenol	ND		15000	4700	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2,4-Dinitrotoluene	ND		7800	1600	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2,6-Dinitrotoluene	ND		7800	910	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2-Chloronaphthalene	ND		7800	1300	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2-Chlorophenol	ND		7800	1400	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2-Methylnaphthalene	ND		7800	1600	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2-Methylphenol	ND		7800	910	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2-Nitroaniline	ND		15000	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
2-Nitrophenol	ND		7800	2200	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
3,3'-Dichlorobenzidine	ND		15000	9100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
3-Nitroaniline	ND		15000	2100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
4,6-Dinitro-2-methylphenol	ND		15000	7800	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
4-Bromophenyl phenyl ether	ND		7800	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
4-Chloro-3-methylphenol	ND		7800	1900	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
4-Chloroaniline	ND		7800	1900	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
4-Chlorophenyl phenyl ether	ND		7800	960	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
4-Methylphenol	ND		15000	910	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
4-Nitroaniline	ND		15000	4100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
4-Nitrophenol	ND		15000	5400	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Acenaphthene	ND		7800	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Acenaphthylene	ND		7800	1000	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Acetophenone	ND		7800	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Anthracene	ND		7800	1900	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Atrazine	ND		7800	2700	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Benzaldehyde	ND		7800	6200	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Benzo(a)anthracene	1900	J	7800	780	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Benzo(a)pyrene	4500	J	7800	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Benzo(b)fluoranthene	7200	J	7800	1200	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Benzo(g,h,i)perylene	1300	J	7800	820	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Benzo(k)fluoranthene	1100	J	7800	1000	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Biphenyl	ND		7800	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
bis (2-chloroisopropyl) ether	ND		7800	1600	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Bis(2-chloroethoxy)methane	ND		7800	1600	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Bis(2-chloroethyl)ether	ND		7800	1000	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Bis(2-ethylhexyl) phthalate	ND		7800	2700	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Butyl benzyl phthalate	ND		7800	1300	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Caprolactam	ND		7800	2300	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Carbazole	ND		7800	910	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Chrysene	2300	J	7800	1700	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Dibenz(a,h)anthracene	ND		7800	1400	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Dibenzofuran	ND		7800	910	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Diethyl phthalate	ND		7800	1000	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Dimethyl phthalate	ND		7800	910	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Di-n-butyl phthalate	ND		7800	1300	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Di-n-octyl phthalate	ND		7800	910	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: PISTON ROOM COMP

Lab Sample ID: 480-71973-2

Date Collected: 11/25/14 10:45

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 43.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	3000	J	7800	820	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Fluorene	ND		7800	910	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Hexachlorobenzene	ND		7800	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Hexachlorobutadiene	ND		7800	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Hexachlorocyclopentadiene	ND		7800	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Hexachloroethane	ND		7800	1000	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Indeno(1,2,3-cd)pyrene	7200	J	7800	960	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Isophorone	ND		7800	1600	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Naphthalene	ND		7800	1000	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Nitrobenzene	ND		7800	870	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
N-Nitrosodi-n-propylamine	ND		7800	1300	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
N-Nitrosodiphenylamine	ND		7800	6300	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Pentachlorophenol	ND		15000	7800	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Phenanthrene	1700	J	7800	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Phenol	ND		7800	1200	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20
Pyrene	2300	J	7800	910	ug/Kg	☼	11/26/14 16:05	11/28/14 11:59	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		39 - 146	11/26/14 16:05	11/28/14 11:59	20
2,4,6-Tribromophenol	72		39 - 146	11/26/14 16:05	11/28/14 17:41	10
2-Fluorobiphenyl	86		37 - 120	11/26/14 16:05	11/28/14 11:59	20
2-Fluorobiphenyl	81		37 - 120	11/26/14 16:05	11/28/14 17:41	10
2-Fluorophenol	66		18 - 120	11/26/14 16:05	11/28/14 11:59	20
2-Fluorophenol	67		18 - 120	11/26/14 16:05	11/28/14 17:41	10
Nitrobenzene-d5	60		34 - 132	11/26/14 16:05	11/28/14 11:59	20
Nitrobenzene-d5	70		34 - 132	11/26/14 16:05	11/28/14 17:41	10
Phenol-d5	65		11 - 120	11/26/14 16:05	11/28/14 11:59	20
Phenol-d5	64		11 - 120	11/26/14 16:05	11/28/14 17:41	10
p-Terphenyl-d14	90		65 - 153	11/26/14 16:05	11/28/14 11:59	20
p-Terphenyl-d14	95		65 - 153	11/26/14 16:05	11/28/14 17:41	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2500	490	ug/Kg	☼	11/26/14 08:07	11/29/14 09:12	5
PCB-1221	ND		2500	490	ug/Kg	☼	11/26/14 08:07	11/29/14 09:12	5
PCB-1232	ND		2500	490	ug/Kg	☼	11/26/14 08:07	11/29/14 09:12	5
PCB-1242	ND		2500	490	ug/Kg	☼	11/26/14 08:07	11/29/14 09:12	5
PCB-1248	ND		2500	490	ug/Kg	☼	11/26/14 08:07	11/29/14 09:12	5
PCB-1254	ND		2500	1200	ug/Kg	☼	11/26/14 08:07	11/29/14 09:12	5
PCB-1260	ND		2500	1200	ug/Kg	☼	11/26/14 08:07	11/29/14 09:12	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	145		47 - 176	11/26/14 08:07	11/29/14 09:12	5
DCB Decachlorobiphenyl	139		47 - 176	11/26/14 08:07	11/29/14 09:12	5
Tetrachloro-m-xylene	93		46 - 175	11/26/14 08:07	11/29/14 09:12	5
Tetrachloro-m-xylene	125		46 - 175	11/26/14 08:07	11/29/14 09:12	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	108		4.7		mg/Kg	☼	11/26/14 15:40	12/01/14 21:53	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: PISTON ROOM COMP

Lab Sample ID: 480-71973-2

Date Collected: 11/25/14 10:45

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 43.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	5090		5.8		mg/Kg	☼	11/26/14 15:40	12/02/14 19:13	5
Cadmium	5.5		0.47		mg/Kg	☼	11/26/14 15:40	12/01/14 21:53	1
Chromium	95.8		1.2		mg/Kg	☼	11/26/14 15:40	12/01/14 21:53	1
Lead	4170		2.3		mg/Kg	☼	11/26/14 15:40	12/01/14 21:53	1
Selenium	ND		9.3		mg/Kg	☼	11/26/14 15:40	12/01/14 21:53	1
Silver	ND		1.4		mg/Kg	☼	11/26/14 15:40	12/01/14 21:53	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6		0.044		mg/Kg	☼	12/01/14 10:45	12/01/14 16:03	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: MOTOR #1 WIPE #1

Lab Sample ID: 480-71973-3

Date Collected: 11/25/14 10:20

Matrix: Wipe

Date Received: 11/25/14 13:25

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 01:42	5
PCB-1221	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 01:42	5
PCB-1232	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 01:42	5
PCB-1242	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 01:42	5
PCB-1248	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 01:42	5
PCB-1254	ND		5.0	1.3	ug/Wipe		11/26/14 09:12	11/29/14 01:42	5
PCB-1260	ND		5.0	1.3	ug/Wipe		11/26/14 09:12	11/29/14 01:42	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	116		57 - 173	11/26/14 09:12	11/29/14 01:42	5
Tetrachloro-m-xylene	157		57 - 173	11/26/14 09:12	11/29/14 01:42	5
DCB Decachlorobiphenyl	115		59 - 171	11/26/14 09:12	11/29/14 01:42	5
DCB Decachlorobiphenyl	122		59 - 171	11/26/14 09:12	11/29/14 01:42	5

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: MOTOR #1 WIPE #2

Lab Sample ID: 480-71973-4

Date Collected: 11/25/14 10:25

Matrix: Wipe

Date Received: 11/25/14 13:25

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	2.9	J	5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 01:58	5
PCB-1221	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 01:58	5
PCB-1232	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 01:58	5
PCB-1242	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 01:58	5
PCB-1248	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 01:58	5
PCB-1254	ND		5.0	1.3	ug/Wipe		11/26/14 09:12	11/29/14 01:58	5
PCB-1260	ND		5.0	1.3	ug/Wipe		11/26/14 09:12	11/29/14 01:58	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		57 - 173				11/26/14 09:12	11/29/14 01:58	5
Tetrachloro-m-xylene	133		57 - 173				11/26/14 09:12	11/29/14 01:58	5
DCB Decachlorobiphenyl	103		59 - 171				11/26/14 09:12	11/29/14 01:58	5
DCB Decachlorobiphenyl	108		59 - 171				11/26/14 09:12	11/29/14 01:58	5

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: MOTOR #2 WIPE #3

Lab Sample ID: 480-71973-5

Date Collected: 11/25/14 10:30

Matrix: Wipe

Date Received: 11/25/14 13:25

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 02:13	5
PCB-1221	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 02:13	5
PCB-1232	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 02:13	5
PCB-1242	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 02:13	5
PCB-1248	ND		5.0	0.90	ug/Wipe		11/26/14 09:12	11/29/14 02:13	5
PCB-1254	ND		5.0	1.3	ug/Wipe		11/26/14 09:12	11/29/14 02:13	5
PCB-1260	ND		5.0	1.3	ug/Wipe		11/26/14 09:12	11/29/14 02:13	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	113		57 - 173	11/26/14 09:12	11/29/14 02:13	5
Tetrachloro-m-xylene	149		57 - 173	11/26/14 09:12	11/29/14 02:13	5
DCB Decachlorobiphenyl	112		59 - 171	11/26/14 09:12	11/29/14 02:13	5
DCB Decachlorobiphenyl	115		59 - 171	11/26/14 09:12	11/29/14 02:13	5

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: MOTOR #2 WIPE #4

Lab Sample ID: 480-71973-6

Date Collected: 11/25/14 10:35

Matrix: Wipe

Date Received: 11/25/14 13:25

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	3.6	ug/Wipe		11/26/14 09:12	11/29/14 02:28	20
PCB-1221	ND		20	3.6	ug/Wipe		11/26/14 09:12	11/29/14 02:28	20
PCB-1232	ND		20	3.6	ug/Wipe		11/26/14 09:12	11/29/14 02:28	20
PCB-1242	ND		20	3.6	ug/Wipe		11/26/14 09:12	11/29/14 02:28	20
PCB-1248	ND		20	3.6	ug/Wipe		11/26/14 09:12	11/29/14 02:28	20
PCB-1254	ND		20	5.0	ug/Wipe		11/26/14 09:12	11/29/14 02:28	20
PCB-1260	ND		20	5.0	ug/Wipe		11/26/14 09:12	11/29/14 02:28	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		57 - 173	11/26/14 09:12	11/29/14 02:28	20
Tetrachloro-m-xylene	170		57 - 173	11/26/14 09:12	11/29/14 02:28	20
DCB Decachlorobiphenyl	122		59 - 171	11/26/14 09:12	11/29/14 02:28	20
DCB Decachlorobiphenyl	125		59 - 171	11/26/14 09:12	11/29/14 02:28	20

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: BOILER SUMP CONTENTS

Lab Sample ID: 480-71973-7

Date Collected: 11/25/14 10:15

Matrix: Water

Date Received: 11/25/14 13:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		46	4.5	ug/L		11/26/14 05:15	11/28/14 11:30	10
2,4,6-Trichlorophenol	ND		46	5.7	ug/L		11/26/14 05:15	11/28/14 11:30	10
2,4-Dichlorophenol	ND		46	4.7	ug/L		11/26/14 05:15	11/28/14 11:30	10
2,4-Dimethylphenol	ND		46	4.6	ug/L		11/26/14 05:15	11/28/14 11:30	10
2,4-Dinitrophenol	ND		93	21	ug/L		11/26/14 05:15	11/28/14 11:30	10
2,4-Dinitrotoluene	ND		46	4.2	ug/L		11/26/14 05:15	11/28/14 11:30	10
2,6-Dinitrotoluene	4.4	J	46	3.7	ug/L		11/26/14 05:15	11/28/14 11:30	10
2-Chloronaphthalene	ND		46	4.3	ug/L		11/26/14 05:15	11/28/14 11:30	10
2-Chlorophenol	ND		46	4.9	ug/L		11/26/14 05:15	11/28/14 11:30	10
2-Methylnaphthalene	ND		46	5.6	ug/L		11/26/14 05:15	11/28/14 11:30	10
2-Methylphenol	ND		46	3.7	ug/L		11/26/14 05:15	11/28/14 11:30	10
2-Nitroaniline	ND		93	3.9	ug/L		11/26/14 05:15	11/28/14 11:30	10
2-Nitrophenol	ND		46	4.5	ug/L		11/26/14 05:15	11/28/14 11:30	10
3,3'-Dichlorobenzidine	ND		46	3.7	ug/L		11/26/14 05:15	11/28/14 11:30	10
3-Nitroaniline	ND	*	93	4.5	ug/L		11/26/14 05:15	11/28/14 11:30	10
4,6-Dinitro-2-methylphenol	ND		93	20	ug/L		11/26/14 05:15	11/28/14 11:30	10
4-Bromophenyl phenyl ether	ND		46	4.2	ug/L		11/26/14 05:15	11/28/14 11:30	10
4-Chloro-3-methylphenol	ND		46	4.2	ug/L		11/26/14 05:15	11/28/14 11:30	10
4-Chloroaniline	ND		46	5.5	ug/L		11/26/14 05:15	11/28/14 11:30	10
4-Chlorophenyl phenyl ether	ND		46	3.3	ug/L		11/26/14 05:15	11/28/14 11:30	10
4-Methylphenol	ND		93	3.3	ug/L		11/26/14 05:15	11/28/14 11:30	10
4-Nitroaniline	ND		93	2.3	ug/L		11/26/14 05:15	11/28/14 11:30	10
4-Nitrophenol	ND		93	14	ug/L		11/26/14 05:15	11/28/14 11:30	10
Acenaphthene	ND		46	3.8	ug/L		11/26/14 05:15	11/28/14 11:30	10
Acenaphthylene	ND		46	3.5	ug/L		11/26/14 05:15	11/28/14 11:30	10
Acetophenone	ND		46	5.0	ug/L		11/26/14 05:15	11/28/14 11:30	10
Anthracene	ND		46	2.6	ug/L		11/26/14 05:15	11/28/14 11:30	10
Atrazine	ND		46	4.3	ug/L		11/26/14 05:15	11/28/14 11:30	10
Benzaldehyde	ND	*	46	2.5	ug/L		11/26/14 05:15	11/28/14 11:30	10
Benzo(a)anthracene	ND		46	3.3	ug/L		11/26/14 05:15	11/28/14 11:30	10
Benzo(a)pyrene	ND		46	4.4	ug/L		11/26/14 05:15	11/28/14 11:30	10
Benzo(b)fluoranthene	ND		46	3.2	ug/L		11/26/14 05:15	11/28/14 11:30	10
Benzo(g,h,i)perylene	ND		46	3.3	ug/L		11/26/14 05:15	11/28/14 11:30	10
Benzo(k)fluoranthene	ND		46	6.8	ug/L		11/26/14 05:15	11/28/14 11:30	10
Biphenyl	ND		46	6.1	ug/L		11/26/14 05:15	11/28/14 11:30	10
bis (2-chloroisopropyl) ether	ND		46	4.8	ug/L		11/26/14 05:15	11/28/14 11:30	10
Bis(2-chloroethoxy)methane	ND		46	3.3	ug/L		11/26/14 05:15	11/28/14 11:30	10
Bis(2-chloroethyl)ether	ND		46	3.7	ug/L		11/26/14 05:15	11/28/14 11:30	10
Bis(2-ethylhexyl) phthalate	ND		46	17	ug/L		11/26/14 05:15	11/28/14 11:30	10
Butyl benzyl phthalate	ND		46	3.9	ug/L		11/26/14 05:15	11/28/14 11:30	10
Caprolactam	ND		46	20	ug/L		11/26/14 05:15	11/28/14 11:30	10
Carbazole	ND	*	46	2.8	ug/L		11/26/14 05:15	11/28/14 11:30	10
Chrysene	ND		46	3.1	ug/L		11/26/14 05:15	11/28/14 11:30	10
Dibenz(a,h)anthracene	ND		46	3.9	ug/L		11/26/14 05:15	11/28/14 11:30	10
Dibenzofuran	ND		93	4.7	ug/L		11/26/14 05:15	11/28/14 11:30	10
Diethyl phthalate	ND		46	2.0	ug/L		11/26/14 05:15	11/28/14 11:30	10
Dimethyl phthalate	ND		46	3.3	ug/L		11/26/14 05:15	11/28/14 11:30	10
Di-n-butyl phthalate	ND		46	2.9	ug/L		11/26/14 05:15	11/28/14 11:30	10
Di-n-octyl phthalate	ND		46	4.4	ug/L		11/26/14 05:15	11/28/14 11:30	10

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: BOILER SUMP CONTENTS

Lab Sample ID: 480-71973-7

Date Collected: 11/25/14 10:15

Matrix: Water

Date Received: 11/25/14 13:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		46	3.7	ug/L		11/26/14 05:15	11/28/14 11:30	10
Fluorene	ND		46	3.3	ug/L		11/26/14 05:15	11/28/14 11:30	10
Hexachlorobenzene	ND		46	4.7	ug/L		11/26/14 05:15	11/28/14 11:30	10
Hexachlorobutadiene	ND		46	6.3	ug/L		11/26/14 05:15	11/28/14 11:30	10
Hexachlorocyclopentadiene	ND		46	5.5	ug/L		11/26/14 05:15	11/28/14 11:30	10
Hexachloroethane	ND		46	5.5	ug/L		11/26/14 05:15	11/28/14 11:30	10
Indeno(1,2,3-cd)pyrene	ND		46	4.4	ug/L		11/26/14 05:15	11/28/14 11:30	10
Isophorone	ND		46	4.0	ug/L		11/26/14 05:15	11/28/14 11:30	10
Naphthalene	ND		46	7.1	ug/L		11/26/14 05:15	11/28/14 11:30	10
Nitrobenzene	ND		46	2.7	ug/L		11/26/14 05:15	11/28/14 11:30	10
N-Nitrosodi-n-propylamine	ND		46	5.0	ug/L		11/26/14 05:15	11/28/14 11:30	10
N-Nitrosodiphenylamine	ND		46	4.7	ug/L		11/26/14 05:15	11/28/14 11:30	10
Pentachlorophenol	ND		93	20	ug/L		11/26/14 05:15	11/28/14 11:30	10
Phenanthrene	ND		46	4.1	ug/L		11/26/14 05:15	11/28/14 11:30	10
Phenol	ND		46	3.6	ug/L		11/26/14 05:15	11/28/14 11:30	10
Pyrene	ND		46	3.2	ug/L		11/26/14 05:15	11/28/14 11:30	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	84		52 - 132	11/26/14 05:15	11/28/14 11:30	10
2-Fluorobiphenyl	80		48 - 120	11/26/14 05:15	11/28/14 11:30	10
2-Fluorophenol	54		20 - 120	11/26/14 05:15	11/28/14 11:30	10
Nitrobenzene-d5	71		46 - 120	11/26/14 05:15	11/28/14 11:30	10
Phenol-d5	32		16 - 120	11/26/14 05:15	11/28/14 11:30	10
p-Terphenyl-d14	78		67 - 150	11/26/14 05:15	11/28/14 11:30	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.46	0.16	ug/L		11/26/14 14:28	11/29/14 09:19	1
PCB-1221	ND		0.46	0.16	ug/L		11/26/14 14:28	11/29/14 09:19	1
PCB-1232	ND		0.46	0.16	ug/L		11/26/14 14:28	11/29/14 09:19	1
PCB-1242	1.2		0.46	0.16	ug/L		11/26/14 14:28	11/29/14 09:19	1
PCB-1248	ND		0.46	0.16	ug/L		11/26/14 14:28	11/29/14 09:19	1
PCB-1254	ND		0.46	0.23	ug/L		11/26/14 14:28	11/29/14 09:19	1
PCB-1260	ND		0.46	0.23	ug/L		11/26/14 14:28	11/29/14 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	47		19 - 126	11/26/14 14:28	11/29/14 09:19	1
DCB Decachlorobiphenyl	50		19 - 126	11/26/14 14:28	11/29/14 09:19	1
Tetrachloro-m-xylene	100		23 - 127	11/26/14 14:28	11/29/14 09:19	1
Tetrachloro-m-xylene	124		23 - 127	11/26/14 14:28	11/29/14 09:19	1

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: MOTOR #1 CONTENTS

Lab Sample ID: 480-71973-1

Date Collected: 11/25/14 10:05

Matrix: Water

Date Received: 11/25/14 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			216208	11/26/14 14:28	RJS	TAL BUF
Total/NA	Analysis	8082A		1	216274	11/29/14 08:48	DLE	TAL BUF

Client Sample ID: PISTON ROOM COMP

Lab Sample ID: 480-71973-2

Date Collected: 11/25/14 10:45

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 43.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			216216	11/26/14 16:05	RJS	TAL BUF
Total/NA	Analysis	8270D		20	216271	11/28/14 11:59	LMW	TAL BUF
Total/NA	Prep	3550C			216216	11/26/14 16:05	RJS	TAL BUF
Total/NA	Analysis	8270D		10	216271	11/28/14 17:41	LMW	TAL BUF
Total/NA	Prep	3550C			216072	11/26/14 08:07	TRG	TAL BUF
Total/NA	Analysis	8082A		5	216268	11/29/14 09:12	DLE	TAL BUF
Total/NA	Prep	3050B			216196	11/26/14 15:40	EJT	TAL BUF
Total/NA	Analysis	6010C		1	216688	12/01/14 21:53	LMH	TAL BUF
Total/NA	Prep	3050B			216196	11/26/14 15:40	EJT	TAL BUF
Total/NA	Analysis	6010C		5	216929	12/02/14 19:13	LMH	TAL BUF
Total/NA	Prep	7471B			216499	12/01/14 10:45	LRK	TAL BUF
Total/NA	Analysis	7471B		1	216658	12/01/14 16:03	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

Client Sample ID: MOTOR #1 WIPE #1

Lab Sample ID: 480-71973-3

Date Collected: 11/25/14 10:20

Matrix: Wipe

Date Received: 11/25/14 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			216117	11/26/14 09:12	GVF	TAL BUF
Total/NA	Analysis	8082A		5	216274	11/29/14 01:42	DLE	TAL BUF

Client Sample ID: MOTOR #1 WIPE #2

Lab Sample ID: 480-71973-4

Date Collected: 11/25/14 10:25

Matrix: Wipe

Date Received: 11/25/14 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			216117	11/26/14 09:12	GVF	TAL BUF
Total/NA	Analysis	8082A		5	216274	11/29/14 01:58	DLE	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Client Sample ID: MOTOR #2 WIPE #3

Lab Sample ID: 480-71973-5

Date Collected: 11/25/14 10:30

Matrix: Wipe

Date Received: 11/25/14 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			216117	11/26/14 09:12	GVF	TAL BUF
Total/NA	Analysis	8082A		5	216274	11/29/14 02:13	DLE	TAL BUF

Client Sample ID: MOTOR #2 WIPE #4

Lab Sample ID: 480-71973-6

Date Collected: 11/25/14 10:35

Matrix: Wipe

Date Received: 11/25/14 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			216117	11/26/14 09:12	GVF	TAL BUF
Total/NA	Analysis	8082A		20	216274	11/29/14 02:28	DLE	TAL BUF

Client Sample ID: BOILER SUMP CONTENTS

Lab Sample ID: 480-71973-7

Date Collected: 11/25/14 10:15

Matrix: Water

Date Received: 11/25/14 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			216036	11/26/14 05:15	MCZ	TAL BUF
Total/NA	Analysis	8270D		10	216275	11/28/14 11:30	DMR	TAL BUF
Total/NA	Prep	3510C			216208	11/26/14 14:28	RJS	TAL BUF
Total/NA	Analysis	8082A		1	216274	11/29/14 09:19	DLE	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71973-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-71973-1	MOTOR #1 CONTENTS	Water	11/25/14 10:05	11/25/14 13:25
480-71973-2	PISTON ROOM COMP	Solid	11/25/14 10:45	11/25/14 13:25
480-71973-3	MOTOR #1 WIPE #1	Wipe	11/25/14 10:20	11/25/14 13:25
480-71973-4	MOTOR #1 WIPE #2	Wipe	11/25/14 10:25	11/25/14 13:25
480-71973-5	MOTOR #2 WIPE #3	Wipe	11/25/14 10:30	11/25/14 13:25
480-71973-6	MOTOR #2 WIPE #4	Wipe	11/25/14 10:35	11/25/14 13:25
480-71973-7	BOILER SUMP CONTENTS	Water	11/25/14 10:15	11/25/14 13:25

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-71973-1

Login Number: 71973

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robison, Zachary J

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BENCHMARK
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica Buffalo

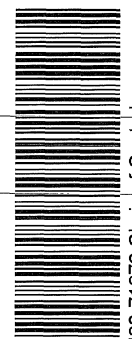
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <u>Sean Fallon</u>		Lab PM: <u>Fischer, Brian J</u>	Carrier Tracking No(s):	COC No: <u>480-57720-15187.1</u>
Client Contact: <u>Mr. Nate Munley</u>		Phone: <u>(716) 856-0579</u>		E-Mail: <u>brian.fischer@testamericainc.com</u>		Page: <u>Page 1 of 1</u>
Company: <u>Benchmark Env. Eng. & Science, PLLC</u>		Due Date Requested:		Analysis Requested		Job #: <u>0270-012-001</u>
Address: <u>2558 Hamburg Turnpike Suite 300</u>		TAT Requested (days): <u>STD</u>				Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:
City: <u>Lackawanna</u>		PO #: <u>(716) 856-0579</u>				M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
State, Zip: <u>NY, 14218</u>		Purchase Order not required				
Phone: <u>(716) 856-0579</u>		WO #:				
Email: <u>nmunley@benchmarkturnkey.com</u>		Project #:				
Project Name: <u>Benchmark - 500 Seneca St.</u>		SSOW#:				
Site: <u>50 Seneca Street</u>						

Sample Identification	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (W-water, S-solid, O-waste/oil, BT-Tissue, A-Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - TCL PCBs - OLM04.2	8270D - TCL SVOA - OLM04.2	RCRA Metals	TCL SVOCs	Total Number of Containers	Special Instructions/Note:
Muster #1 Contents	11-25-14	10:05	G	Water	N	N	N	N				
Aspen Room Cleanup	"	10:45	C	Wipe	N	N	N	N				
Muster #1 Wipe #1	"	10:20	G	Wipe	N	N	N	N				
Muster #1 Wipe #2	"	10:25	G	Wipe	N	N	N	N				
Muster #2 Wipe #3	"	10:30	G	Wipe	N	N	N	N				
Muster #2 Wipe #4	"	10:35	G	Wipe	N	N	N	N				
Boiler Sump Contents	"	10:15	G	Water	N	N	N	N				



480-71973 Chain of Custody

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: <u>CATEGORY B req'd.</u>	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <u>Sean Fallon</u>		Date/Time: <u>11/25/14 11:45</u>	
Relinquished by: <u>Sean Fallon</u>		Date/Time: <u>11/25/14 11:45</u>	
Relinquished by: <u>Sean Fallon</u>		Date/Time: <u>11/25/14 11:45</u>	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.: <u># 2</u>	
Cooling Temperature(s) °C and Other Remarks: <u>4.0</u>			

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-71974-1

Client Project/Site: Benchmark - 500 Seneca St.

For:

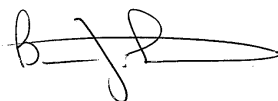
Benchmark Env. Eng. & Science, PLLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Mr. Nate Munley



Authorized for release by:

12/3/2014 4:22:23 PM

Brian Fischer, Manager of Project Management

(716)504-9835

brian.fischer@testamericainc.com

LINKS

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TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Job ID: 480-71974-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-71974-1

Comments

No additional comments.

Receipt

The samples were received on 11/25/2014 1:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

Method(s) 8260C: Reported analyte concentrations in the following sample(s) are below 200ug/kg and may be biased low due to the sample(s) not being collected according to 5035-L/5035A-L low-level specifications: (480-71974-6 MS), (480-71974-6 MSD), PETROLEUM EXC. BOTTOM-01 (480-71974-1), PETROLEUM EXC. BOTTOM-02 (480-71974-2), PETROLEUM EXC. SIDEWALL-EAST (480-71974-5), PETROLEUM EXC. SIDEWALL-NORTH (480-71974-3), PETROLEUM EXC. SIDEWALL-SOUTH (480-71974-4), PETROLEUM EXC. SIDEWALL-WEST (480-71974-6).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 216246 recovered outside acceptance criteria, low biased, for Methylene chloride. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix : PAH EXC. SIDEWALL-EAST (480-71974-10), PAH EXC. SIDEWALL-NORTH (480-71974-8), PAH EXC. SIDEWALL-SOUTH (480-71974-11). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: PAH EXC. BOTTOM-01 (480-71974-7), PAH EXC. SIDEWALL-WEST (480-71974-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. BOTTOM-01

Lab Sample ID: 480-71974-1

Date Collected: 11/17/14 12:25

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.4	0.46	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,1,2,2-Tetrachloroethane	ND		6.4	1.0	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	1.5	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,1,2-Trichloroethane	ND		6.4	0.83	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,1-Dichloroethane	ND		6.4	0.78	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,1-Dichloroethene	ND		6.4	0.78	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,2,4-Trichlorobenzene	ND		6.4	0.39	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,2,4-Trimethylbenzene	ND		6.4	1.2	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,2-Dibromo-3-Chloropropane	ND		6.4	3.2	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,2-Dichlorobenzene	ND		6.4	0.50	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,2-Dichloroethane	ND		6.4	0.32	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,2-Dichloropropane	ND		6.4	3.2	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,3,5-Trimethylbenzene	ND		6.4	0.41	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,3-Dichlorobenzene	ND		6.4	0.33	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,4-Dichlorobenzene	ND		6.4	0.90	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
2-Hexanone	ND		32	3.2	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
4-Isopropyltoluene	ND		6.4	0.51	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Acetone	25	J	32	5.4	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Benzene	ND		6.4	0.31	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Bromoform	ND		6.4	3.2	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Bromomethane	ND		6.4	0.58	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Carbon disulfide	ND		6.4	3.2	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Carbon tetrachloride	ND		6.4	0.62	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Chlorobenzene	ND		6.4	0.85	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Dibromochloromethane	ND		6.4	0.82	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Chloroethane	ND		6.4	1.4	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Chloroform	ND		6.4	0.40	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Chloromethane	ND		6.4	0.39	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
cis-1,2-Dichloroethene	ND		6.4	0.82	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
cis-1,3-Dichloropropene	ND		6.4	0.92	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Cyclohexane	ND		6.4	0.90	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Bromodichloromethane	ND		6.4	0.86	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Dichlorodifluoromethane	ND		6.4	0.53	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Ethylbenzene	ND		6.4	0.44	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
1,2-Dibromoethane	ND		6.4	0.82	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Isopropylbenzene	ND		6.4	0.97	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Methyl acetate	ND		6.4	3.9	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
2-Butanone (MEK)	ND		32	2.3	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
4-Methyl-2-pentanone (MIBK)	ND		32	2.1	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Methyl tert-butyl ether	ND		6.4	0.63	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Methylcyclohexane	ND		6.4	0.97	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Methylene Chloride	ND		6.4	2.9	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
m,p-Xylene	ND		13	1.1	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
n-Butylbenzene	ND		6.4	0.56	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
N-Propylbenzene	ND		6.4	0.51	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
o-Xylene	ND		6.4	0.84	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
sec-Butylbenzene	ND		6.4	0.56	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Styrene	ND		6.4	0.32	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
tert-Butylbenzene	ND		6.4	0.67	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. BOTTOM-01

Lab Sample ID: 480-71974-1

Date Collected: 11/17/14 12:25

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		6.4	0.86	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Toluene	ND		6.4	0.48	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
trans-1,2-Dichloroethene	ND		6.4	0.66	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
trans-1,3-Dichloropropene	ND		6.4	2.8	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Trichloroethene	ND		6.4	1.4	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Trichlorofluoromethane	ND		6.4	0.61	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Vinyl chloride	ND		6.4	0.78	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	11/27/14 00:04	11/27/14 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		64 - 126				11/27/14 00:04	11/27/14 00:46	1
Toluene-d8 (Surr)	99		71 - 125				11/27/14 00:04	11/27/14 00:46	1
4-Bromofluorobenzene (Surr)	107		72 - 126				11/27/14 00:04	11/27/14 00:46	1
Dibromofluoromethane (Surr)	95		60 - 140				11/27/14 00:04	11/27/14 00:46	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. BOTTOM-02

Lab Sample ID: 480-71974-2

Date Collected: 11/17/14 12:40

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 77.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.4	0.47	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,1,2,2-Tetrachloroethane	ND		6.4	1.0	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	1.5	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,1,2-Trichloroethane	ND		6.4	0.84	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,1-Dichloroethane	ND		6.4	0.78	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,1-Dichloroethene	ND		6.4	0.79	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,2,4-Trichlorobenzene	ND		6.4	0.39	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,2,4-Trimethylbenzene	ND		6.4	1.2	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,2-Dibromo-3-Chloropropane	ND		6.4	3.2	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,2-Dichlorobenzene	ND		6.4	0.50	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,2-Dichloroethane	ND		6.4	0.32	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,2-Dichloropropane	ND		6.4	3.2	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,3,5-Trimethylbenzene	ND		6.4	0.41	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,3-Dichlorobenzene	ND		6.4	0.33	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,4-Dichlorobenzene	ND		6.4	0.90	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
2-Hexanone	ND		32	3.2	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
4-Isopropyltoluene	ND		6.4	0.52	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Acetone	48		32	5.4	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Benzene	ND		6.4	0.31	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Bromoform	ND		6.4	3.2	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Bromomethane	ND		6.4	0.58	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Carbon disulfide	ND		6.4	3.2	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Carbon tetrachloride	ND		6.4	0.62	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Chlorobenzene	ND		6.4	0.85	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Dibromochloromethane	ND		6.4	0.82	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Chloroethane	ND		6.4	1.5	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Chloroform	ND		6.4	0.40	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Chloromethane	ND		6.4	0.39	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
cis-1,2-Dichloroethene	ND		6.4	0.82	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
cis-1,3-Dichloropropene	ND		6.4	0.93	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Cyclohexane	ND		6.4	0.90	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Bromodichloromethane	ND		6.4	0.86	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Dichlorodifluoromethane	ND		6.4	0.53	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Ethylbenzene	ND		6.4	0.44	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
1,2-Dibromoethane	ND		6.4	0.83	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Isopropylbenzene	ND		6.4	0.97	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Methyl acetate	ND		6.4	3.9	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
2-Butanone (MEK)	ND		32	2.4	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
4-Methyl-2-pentanone (MIBK)	ND		32	2.1	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Methyl tert-butyl ether	ND		6.4	0.63	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Methylcyclohexane	ND		6.4	0.98	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Methylene Chloride	ND		6.4	3.0	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
m,p-Xylene	ND		13	1.1	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
n-Butylbenzene	ND		6.4	0.56	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
N-Propylbenzene	ND		6.4	0.51	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
o-Xylene	ND		6.4	0.84	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
sec-Butylbenzene	ND		6.4	0.56	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Styrene	ND		6.4	0.32	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
tert-Butylbenzene	ND		6.4	0.67	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. BOTTOM-02

Lab Sample ID: 480-71974-2

Date Collected: 11/17/14 12:40

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 77.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		6.4	0.86	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Toluene	ND		6.4	0.49	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
trans-1,2-Dichloroethene	ND		6.4	0.66	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
trans-1,3-Dichloropropene	ND		6.4	2.8	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Trichloroethene	ND		6.4	1.4	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Trichlorofluoromethane	ND		6.4	0.61	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Vinyl chloride	ND		6.4	0.78	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	11/27/14 00:04	11/27/14 01:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 126				11/27/14 00:04	11/27/14 01:12	1
Toluene-d8 (Surr)	101		71 - 125				11/27/14 00:04	11/27/14 01:12	1
4-Bromofluorobenzene (Surr)	109		72 - 126				11/27/14 00:04	11/27/14 01:12	1
Dibromofluoromethane (Surr)	100		60 - 140				11/27/14 00:04	11/27/14 01:12	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		2.4		mg/Kg	☼	11/28/14 15:38	12/01/14 22:05	1
Barium	190		0.61		mg/Kg	☼	11/28/14 15:38	12/01/14 22:05	1
Cadmium	0.79		0.24		mg/Kg	☼	11/28/14 15:38	12/01/14 22:05	1
Chromium	26.5		0.61		mg/Kg	☼	11/28/14 15:38	12/01/14 22:05	1
Lead	23.9		1.2		mg/Kg	☼	11/28/14 15:38	12/01/14 22:05	1
Selenium	ND		4.9		mg/Kg	☼	11/28/14 15:38	12/01/14 22:05	1
Silver	ND		0.73		mg/Kg	☼	11/28/14 15:38	12/01/14 22:05	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.024		mg/Kg	☼	12/01/14 10:45	12/01/14 16:05	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. SIDEWALL-NORTH

Lab Sample ID: 480-71974-3

Date Collected: 11/17/14 12:00

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 73.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.7	0.49	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,1,2,2-Tetrachloroethane	ND		6.7	1.1	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.7	1.5	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,1,2-Trichloroethane	ND		6.7	0.87	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,1-Dichloroethane	ND		6.7	0.82	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,1-Dichloroethene	ND		6.7	0.82	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,2,4-Trichlorobenzene	ND		6.7	0.41	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,2,4-Trimethylbenzene	ND		6.7	1.3	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,2-Dibromo-3-Chloropropane	ND		6.7	3.3	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,2-Dichlorobenzene	ND		6.7	0.52	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,2-Dichloroethane	ND		6.7	0.34	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,2-Dichloropropane	ND		6.7	3.3	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,3,5-Trimethylbenzene	ND		6.7	0.43	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,3-Dichlorobenzene	ND		6.7	0.34	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,4-Dichlorobenzene	ND		6.7	0.94	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
2-Hexanone	ND		33	3.3	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
4-Isopropyltoluene	ND		6.7	0.54	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Acetone	19	J	33	5.6	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Benzene	ND		6.7	0.33	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Bromoform	ND		6.7	3.3	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Bromomethane	ND		6.7	0.60	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Carbon disulfide	ND		6.7	3.3	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Carbon tetrachloride	ND		6.7	0.65	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Chlorobenzene	ND		6.7	0.88	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Dibromochloromethane	ND		6.7	0.86	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Chloroethane	ND		6.7	1.5	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Chloroform	ND		6.7	0.41	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Chloromethane	ND		6.7	0.40	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
cis-1,2-Dichloroethene	ND		6.7	0.86	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
cis-1,3-Dichloropropene	ND		6.7	0.96	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Cyclohexane	ND		6.7	0.94	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Bromodichloromethane	ND		6.7	0.90	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Dichlorodifluoromethane	ND		6.7	0.55	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Ethylbenzene	ND		6.7	0.46	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
1,2-Dibromoethane	ND		6.7	0.86	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Isopropylbenzene	ND		6.7	1.0	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Methyl acetate	ND		6.7	4.0	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
2-Butanone (MEK)	ND		33	2.5	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
4-Methyl-2-pentanone (MIBK)	ND		33	2.2	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Methyl tert-butyl ether	ND		6.7	0.66	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Methylcyclohexane	ND		6.7	1.0	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Methylene Chloride	ND		6.7	3.1	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
m,p-Xylene	ND		13	1.1	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
n-Butylbenzene	ND		6.7	0.58	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
N-Propylbenzene	ND		6.7	0.54	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
o-Xylene	ND		6.7	0.87	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
sec-Butylbenzene	ND		6.7	0.58	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
Styrene	ND		6.7	0.33	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1
tert-Butylbenzene	ND		6.7	0.70	ug/Kg	☼	11/27/14 00:04	11/27/14 01:37	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. SIDEWALL-NORTH

Lab Sample ID: 480-71974-3

Date Collected: 11/17/14 12:00

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 73.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		6.7	0.90	ug/Kg	⚠	11/27/14 00:04	11/27/14 01:37	1
Toluene	ND		6.7	0.51	ug/Kg	⚠	11/27/14 00:04	11/27/14 01:37	1
trans-1,2-Dichloroethene	ND		6.7	0.69	ug/Kg	⚠	11/27/14 00:04	11/27/14 01:37	1
trans-1,3-Dichloropropene	ND		6.7	2.9	ug/Kg	⚠	11/27/14 00:04	11/27/14 01:37	1
Trichloroethene	ND		6.7	1.5	ug/Kg	⚠	11/27/14 00:04	11/27/14 01:37	1
Trichlorofluoromethane	ND		6.7	0.63	ug/Kg	⚠	11/27/14 00:04	11/27/14 01:37	1
Vinyl chloride	ND		6.7	0.82	ug/Kg	⚠	11/27/14 00:04	11/27/14 01:37	1
Xylenes, Total	ND		13	1.1	ug/Kg	⚠	11/27/14 00:04	11/27/14 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 126				11/27/14 00:04	11/27/14 01:37	1
Toluene-d8 (Surr)	100		71 - 125				11/27/14 00:04	11/27/14 01:37	1
4-Bromofluorobenzene (Surr)	109		72 - 126				11/27/14 00:04	11/27/14 01:37	1
Dibromofluoromethane (Surr)	100		60 - 140				11/27/14 00:04	11/27/14 01:37	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. SIDEWALL-SOUTH

Lab Sample ID: 480-71974-4

Date Collected: 11/17/14 14:20

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 81.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.0	0.43	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,1,2,2-Tetrachloroethane	ND		6.0	0.97	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.0	1.4	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,1,2-Trichloroethane	ND		6.0	0.78	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,1-Dichloroethane	ND		6.0	0.73	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,1-Dichloroethene	ND		6.0	0.73	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,2,4-Trichlorobenzene	ND		6.0	0.36	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,2,4-Trimethylbenzene	ND		6.0	1.1	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,2-Dibromo-3-Chloropropane	ND		6.0	3.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,2-Dichlorobenzene	ND		6.0	0.47	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,2-Dichloroethane	ND		6.0	0.30	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,2-Dichloropropane	ND		6.0	3.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,3,5-Trimethylbenzene	ND		6.0	0.38	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,3-Dichlorobenzene	ND		6.0	0.31	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,4-Dichlorobenzene	ND		6.0	0.83	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
2-Hexanone	ND		30	3.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
4-Isopropyltoluene	ND		6.0	0.48	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Acetone	ND		30	5.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Benzene	ND		6.0	0.29	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Bromoform	ND		6.0	3.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Bromomethane	ND		6.0	0.54	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Carbon disulfide	ND		6.0	3.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Carbon tetrachloride	ND		6.0	0.58	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Chlorobenzene	ND		6.0	0.79	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Dibromochloromethane	ND		6.0	0.76	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Chloroethane	ND		6.0	1.3	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Chloroform	ND		6.0	0.37	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Chloromethane	ND		6.0	0.36	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
cis-1,2-Dichloroethene	ND		6.0	0.76	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
cis-1,3-Dichloropropene	ND		6.0	0.86	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Cyclohexane	ND		6.0	0.83	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Bromodichloromethane	ND		6.0	0.80	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Dichlorodifluoromethane	ND		6.0	0.49	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Ethylbenzene	ND		6.0	0.41	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
1,2-Dibromoethane	ND		6.0	0.77	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Isopropylbenzene	ND		6.0	0.90	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Methyl acetate	ND		6.0	3.6	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
2-Butanone (MEK)	ND		30	2.2	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		30	2.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Methyl tert-butyl ether	ND		6.0	0.59	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Methylcyclohexane	ND		6.0	0.91	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Methylene Chloride	ND		6.0	2.7	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
m,p-Xylene	ND		12	1.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
n-Butylbenzene	ND		6.0	0.52	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
N-Propylbenzene	ND		6.0	0.48	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
o-Xylene	ND		6.0	0.78	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
sec-Butylbenzene	ND		6.0	0.52	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
Styrene	ND		6.0	0.30	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1
tert-Butylbenzene	ND		6.0	0.62	ug/Kg	☼	11/27/14 00:04	11/27/14 02:03	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. SIDEWALL-SOUTH

Lab Sample ID: 480-71974-4

Date Collected: 11/17/14 14:20

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 81.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		6.0	0.80	ug/Kg	⚠	11/27/14 00:04	11/27/14 02:03	1
Toluene	ND		6.0	0.45	ug/Kg	⚠	11/27/14 00:04	11/27/14 02:03	1
trans-1,2-Dichloroethene	ND		6.0	0.62	ug/Kg	⚠	11/27/14 00:04	11/27/14 02:03	1
trans-1,3-Dichloropropene	ND		6.0	2.6	ug/Kg	⚠	11/27/14 00:04	11/27/14 02:03	1
Trichloroethene	ND		6.0	1.3	ug/Kg	⚠	11/27/14 00:04	11/27/14 02:03	1
Trichlorofluoromethane	ND		6.0	0.56	ug/Kg	⚠	11/27/14 00:04	11/27/14 02:03	1
Vinyl chloride	ND		6.0	0.73	ug/Kg	⚠	11/27/14 00:04	11/27/14 02:03	1
Xylenes, Total	ND		12	1.0	ug/Kg	⚠	11/27/14 00:04	11/27/14 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		64 - 126				11/27/14 00:04	11/27/14 02:03	1
Toluene-d8 (Surr)	98		71 - 125				11/27/14 00:04	11/27/14 02:03	1
4-Bromofluorobenzene (Surr)	107		72 - 126				11/27/14 00:04	11/27/14 02:03	1
Dibromofluoromethane (Surr)	98		60 - 140				11/27/14 00:04	11/27/14 02:03	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. SIDEWALL-EAST

Lab Sample ID: 480-71974-5

Date Collected: 11/17/14 14:00

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 80.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.2	0.45	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,1,2,2-Tetrachloroethane	ND		6.2	1.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2	1.4	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,1,2-Trichloroethane	ND		6.2	0.81	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,1-Dichloroethane	ND		6.2	0.76	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,1-Dichloroethene	ND		6.2	0.76	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,2,4-Trichlorobenzene	ND		6.2	0.38	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,2,4-Trimethylbenzene	ND		6.2	1.2	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,2-Dibromo-3-Chloropropane	ND		6.2	3.1	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,2-Dichlorobenzene	ND		6.2	0.49	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,2-Dichloroethane	ND		6.2	0.31	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,2-Dichloropropane	ND		6.2	3.1	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,3,5-Trimethylbenzene	ND		6.2	0.40	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,3-Dichlorobenzene	ND		6.2	0.32	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,4-Dichlorobenzene	ND		6.2	0.87	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
2-Hexanone	ND		31	3.1	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
4-Isopropyltoluene	ND		6.2	0.50	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Acetone	41		31	5.2	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Benzene	ND		6.2	0.31	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Bromoform	ND		6.2	3.1	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Bromomethane	ND		6.2	0.56	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Carbon disulfide	ND		6.2	3.1	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Carbon tetrachloride	ND		6.2	0.60	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Chlorobenzene	ND		6.2	0.82	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Dibromochloromethane	ND		6.2	0.80	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Chloroethane	ND		6.2	1.4	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Chloroform	ND		6.2	0.39	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Chloromethane	ND		6.2	0.38	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
cis-1,2-Dichloroethene	ND		6.2	0.80	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
cis-1,3-Dichloropropene	ND		6.2	0.90	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Cyclohexane	ND		6.2	0.87	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Bromodichloromethane	ND		6.2	0.83	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Dichlorodifluoromethane	ND		6.2	0.51	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Ethylbenzene	ND		6.2	0.43	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
1,2-Dibromoethane	ND		6.2	0.80	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Isopropylbenzene	ND		6.2	0.94	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Methyl acetate	ND		6.2	3.8	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
2-Butanone (MEK)	ND		31	2.3	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
4-Methyl-2-pentanone (MIBK)	ND		31	2.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Methyl tert-butyl ether	ND		6.2	0.61	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Methylcyclohexane	ND		6.2	0.95	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Methylene Chloride	ND		6.2	2.9	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
m,p-Xylene	ND		12	1.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
n-Butylbenzene	ND		6.2	0.54	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
N-Propylbenzene	ND		6.2	0.50	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
o-Xylene	ND		6.2	0.81	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
sec-Butylbenzene	ND		6.2	0.54	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Styrene	ND		6.2	0.31	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
tert-Butylbenzene	ND		6.2	0.65	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. SIDEWALL-EAST

Lab Sample ID: 480-71974-5

Date Collected: 11/17/14 14:00

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 80.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		6.2	0.84	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Toluene	ND		6.2	0.47	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
trans-1,2-Dichloroethene	ND		6.2	0.64	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
trans-1,3-Dichloropropene	ND		6.2	2.7	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Trichloroethene	ND		6.2	1.4	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Trichlorofluoromethane	ND		6.2	0.59	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Vinyl chloride	ND		6.2	0.76	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Xylenes, Total	ND		12	1.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 126				11/27/14 00:04	11/27/14 02:28	1
Toluene-d8 (Surr)	102		71 - 125				11/27/14 00:04	11/27/14 02:28	1
4-Bromofluorobenzene (Surr)	109		72 - 126				11/27/14 00:04	11/27/14 02:28	1
Dibromofluoromethane (Surr)	102		60 - 140				11/27/14 00:04	11/27/14 02:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.4		mg/Kg	☼	11/28/14 15:38	12/01/14 22:08	1
Barium	97.1		0.59		mg/Kg	☼	11/28/14 15:38	12/01/14 22:08	1
Cadmium	0.25		0.24		mg/Kg	☼	11/28/14 15:38	12/01/14 22:08	1
Chromium	19.8		0.59		mg/Kg	☼	11/28/14 15:38	12/01/14 22:08	1
Lead	16.5		1.2		mg/Kg	☼	11/28/14 15:38	12/01/14 22:08	1
Selenium	ND		4.7		mg/Kg	☼	11/28/14 15:38	12/01/14 22:08	1
Silver	ND		0.71		mg/Kg	☼	11/28/14 15:38	12/01/14 22:08	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.023		mg/Kg	☼	12/01/14 10:45	12/01/14 16:06	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. SIDEWALL-WEST

Lab Sample ID: 480-71974-6

Date Collected: 11/17/14 13:45

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 95.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,2,4-Trichlorobenzene	ND		5.0	0.31	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Acetone	ND		25	4.2	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Benzene	ND		5.0	0.25	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Bromoform	ND		5.0	2.5	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Bromomethane	ND		5.0	0.45	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Carbon disulfide	ND		5.0	2.5	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Carbon tetrachloride	ND		5.0	0.49	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Chlorobenzene	ND		5.0	0.66	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Chloroethane	ND		5.0	1.1	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Chloroform	ND		5.0	0.31	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Chloromethane	ND		5.0	0.30	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Cyclohexane	ND		5.0	0.70	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Ethylbenzene	ND		5.0	0.35	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Isopropylbenzene	ND		5.0	0.76	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Methyl acetate	ND		5.0	3.0	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Methylene Chloride	ND		5.0	2.3	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
m,p-Xylene	ND		10	0.84	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
o-Xylene	ND		5.0	0.66	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Styrene	ND		5.0	0.25	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. SIDEWALL-WEST

Lab Sample ID: 480-71974-6

Date Collected: 11/17/14 13:45

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 95.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.0	0.67	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Toluene	ND		5.0	0.38	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Trichloroethene	ND		5.0	1.1	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Vinyl chloride	ND		5.0	0.61	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1
Xylenes, Total	ND		10	0.84	ug/Kg	☼	11/27/14 00:04	11/27/14 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	11/27/14 00:04	11/27/14 02:54	1
Toluene-d8 (Surr)	102		71 - 125	11/27/14 00:04	11/27/14 02:54	1
4-Bromofluorobenzene (Surr)	111		72 - 126	11/27/14 00:04	11/27/14 02:54	1
Dibromofluoromethane (Surr)	102		60 - 140	11/27/14 00:04	11/27/14 02:54	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PAH EXC. BOTTOM-01

Lab Sample ID: 480-71974-7

Date Collected: 11/17/14 16:20

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		990	200	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
2,6-Dinitrotoluene	ND		990	120	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
2-Chloronaphthalene	ND		990	160	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
2-Methylnaphthalene	ND		990	200	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
2-Nitroaniline	ND		1900	150	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
3,3'-Dichlorobenzidine	ND		1900	1200	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
3-Nitroaniline	ND		1900	270	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
4-Bromophenyl phenyl ether	ND		990	140	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
4-Chloroaniline	ND		990	250	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
4-Chlorophenyl phenyl ether	ND		990	120	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
4-Nitroaniline	ND		1900	520	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Acenaphthene	ND		990	150	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Acenaphthylene	ND		990	130	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Acetophenone	ND		990	130	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Anthracene	ND		990	250	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Atrazine	ND		990	340	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Benzaldehyde	ND		990	790	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Benzo(a)anthracene	ND		990	99	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Benzo(a)pyrene	ND		990	150	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Benzo(b)fluoranthene	660	J	990	160	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Benzo(g,h,i)perylene	ND		990	110	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Benzo(k)fluoranthene	ND		990	130	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Biphenyl	ND		990	150	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
bis (2-chloroisopropyl) ether	ND		990	200	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Bis(2-chloroethoxy)methane	ND		990	210	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Bis(2-chloroethyl)ether	ND		990	130	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Bis(2-ethylhexyl) phthalate	ND		990	340	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Butyl benzyl phthalate	ND		990	160	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Caprolactam	ND		990	300	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Carbazole	ND		990	120	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Chrysene	ND		990	220	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Dibenz(a,h)anthracene	ND		990	180	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Dibenzofuran	ND		990	120	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Diethyl phthalate	ND		990	130	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Dimethyl phthalate	ND		990	120	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Di-n-butyl phthalate	ND		990	170	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Di-n-octyl phthalate	ND		990	120	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Fluoranthene	ND		990	110	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Fluorene	ND		990	120	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Hexachlorobenzene	ND		990	130	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Hexachlorobutadiene	ND		990	150	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Hexachlorocyclopentadiene	ND		990	130	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Hexachloroethane	ND		990	130	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Indeno(1,2,3-cd)pyrene	ND		990	120	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Isophorone	ND		990	210	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Naphthalene	ND		990	130	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Nitrobenzene	ND		990	110	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
N-Nitrosodi-n-propylamine	ND		990	170	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
N-Nitrosodiphenylamine	ND		990	810	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PAH EXC. BOTTOM-01

Lab Sample ID: 480-71974-7

Date Collected: 11/17/14 16:20

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		990	150	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Pyrene	ND		990	120	ug/Kg	☼	11/26/14 16:05	11/28/14 15:15	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		39 - 146				11/26/14 16:05	11/28/14 15:15	5
2-Fluorobiphenyl	81		37 - 120				11/26/14 16:05	11/28/14 15:15	5
2-Fluorophenol	70		18 - 120				11/26/14 16:05	11/28/14 15:15	5
Nitrobenzene-d5	69		34 - 132				11/26/14 16:05	11/28/14 15:15	5
Phenol-d5	74		11 - 120				11/26/14 16:05	11/28/14 15:15	5
p-Terphenyl-d14	98		65 - 153				11/26/14 16:05	11/28/14 15:15	5

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PAH EXC. SIDEWALL-NORTH

Lab Sample ID: 480-71974-8

Date Collected: 11/17/14 15:55

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		4000	830	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
2,6-Dinitrotoluene	ND		4000	470	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
2-Chloronaphthalene	ND		4000	660	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
2-Methylnaphthalene	ND		4000	800	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
2-Nitroaniline	ND		7800	590	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
3,3'-Dichlorobenzidine	ND		7800	4700	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
3-Nitroaniline	ND		7800	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
4-Bromophenyl phenyl ether	ND		4000	570	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
4-Chloroaniline	ND		4000	990	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
4-Chlorophenyl phenyl ether	ND		4000	500	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
4-Nitroaniline	ND		7800	2100	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Acenaphthene	ND		4000	590	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Acenaphthylene	ND		4000	520	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Acetophenone	ND		4000	540	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Anthracene	ND		4000	990	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Atrazine	ND		4000	1400	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Benzaldehyde	ND		4000	3200	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Benzo(a)anthracene	1800	J	4000	400	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Benzo(a)pyrene	2500	J	4000	590	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Benzo(b)fluoranthene	4200		4000	640	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Benzo(g,h,i)perylene	860	J	4000	420	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Benzo(k)fluoranthene	830	J	4000	520	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Biphenyl	ND		4000	590	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
bis (2-chloroisopropyl) ether	ND		4000	800	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Bis(2-chloroethoxy)methane	ND		4000	850	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Bis(2-chloroethyl)ether	ND		4000	520	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Bis(2-ethylhexyl) phthalate	ND		4000	1400	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Butyl benzyl phthalate	ND		4000	660	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Caprolactam	ND		4000	1200	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Carbazole	ND		4000	470	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Chrysene	1600	J	4000	900	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Dibenz(a,h)anthracene	ND		4000	710	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Dibenzofuran	ND		4000	470	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Diethyl phthalate	ND		4000	520	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Dimethyl phthalate	ND		4000	470	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Di-n-butyl phthalate	ND		4000	680	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Di-n-octyl phthalate	ND		4000	470	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Fluoranthene	3700	J	4000	420	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Fluorene	ND		4000	470	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Hexachlorobenzene	ND		4000	540	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Hexachlorobutadiene	ND		4000	590	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Hexachlorocyclopentadiene	ND		4000	540	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Hexachloroethane	ND		4000	520	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Indeno(1,2,3-cd)pyrene	3800	J	4000	500	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Isophorone	ND		4000	850	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Naphthalene	ND		4000	520	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Nitrobenzene	ND		4000	450	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
N-Nitrosodi-n-propylamine	ND		4000	680	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
N-Nitrosodiphenylamine	ND		4000	3300	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PAH EXC. SIDEWALL-NORTH

Lab Sample ID: 480-71974-8

Date Collected: 11/17/14 15:55

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	2800	J	4000	590	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Pyrene	2900	J	4000	470	ug/Kg	☼	11/26/14 16:05	11/28/14 15:39	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		39 - 146				11/26/14 16:05	11/28/14 15:39	20
2-Fluorobiphenyl	83		37 - 120				11/26/14 16:05	11/28/14 15:39	20
2-Fluorophenol	66		18 - 120				11/26/14 16:05	11/28/14 15:39	20
Nitrobenzene-d5	68		34 - 132				11/26/14 16:05	11/28/14 15:39	20
Phenol-d5	64		11 - 120				11/26/14 16:05	11/28/14 15:39	20
p-Terphenyl-d14	94		65 - 153				11/26/14 16:05	11/28/14 15:39	20

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PAH EXC. SIDEWALL-WEST

Lab Sample ID: 480-71974-9

Date Collected: 11/17/14 16:15

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		950	200	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
2,6-Dinitrotoluene	ND		950	110	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
2-Chloronaphthalene	ND		950	160	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
2-Methylnaphthalene	ND		950	190	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
2-Nitroaniline	ND		1800	140	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
3,3'-Dichlorobenzidine	ND		1800	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
3-Nitroaniline	ND		1800	260	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
4-Bromophenyl phenyl ether	ND		950	130	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
4-Chloroaniline	ND		950	230	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
4-Chlorophenyl phenyl ether	ND		950	120	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
4-Nitroaniline	ND		1800	500	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Acenaphthene	ND		950	140	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Acenaphthylene	ND		950	120	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Acetophenone	ND		950	130	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Anthracene	ND		950	230	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Atrazine	ND		950	330	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Benzaldehyde	ND		950	750	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Benzo(a)anthracene	ND		950	95	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Benzo(a)pyrene	410	J	950	140	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Benzo(b)fluoranthene	660	J	950	150	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Benzo(g,h,i)perylene	ND		950	100	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Benzo(k)fluoranthene	ND		950	120	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Biphenyl	ND		950	140	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
bis (2-chloroisopropyl) ether	ND		950	190	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Bis(2-chloroethoxy)methane	ND		950	200	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Bis(2-chloroethyl)ether	ND		950	120	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Bis(2-ethylhexyl) phthalate	ND		950	320	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Butyl benzyl phthalate	ND		950	160	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Caprolactam	ND		950	280	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Carbazole	ND		950	110	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Chrysene	ND		950	210	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Dibenz(a,h)anthracene	ND		950	170	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Dibenzofuran	ND		950	110	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Diethyl phthalate	ND		950	120	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Dimethyl phthalate	ND		950	110	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Di-n-butyl phthalate	ND		950	160	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Di-n-octyl phthalate	ND		950	110	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Fluoranthene	100	J	950	100	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Fluorene	ND		950	110	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Hexachlorobenzene	ND		950	130	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Hexachlorobutadiene	ND		950	140	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Hexachlorocyclopentadiene	ND		950	130	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Hexachloroethane	ND		950	120	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Indeno(1,2,3-cd)pyrene	ND		950	120	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Isophorone	ND		950	200	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Naphthalene	ND		950	120	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Nitrobenzene	ND		950	110	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
N-Nitrosodi-n-propylamine	ND		950	160	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
N-Nitrosodiphenylamine	ND		950	770	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PAH EXC. SIDEWALL-WEST

Lab Sample ID: 480-71974-9

Date Collected: 11/17/14 16:15

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		950	140	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Pyrene	ND		950	110	ug/Kg	☼	11/26/14 16:05	11/28/14 16:03	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		39 - 146				11/26/14 16:05	11/28/14 16:03	5
2-Fluorobiphenyl	72		37 - 120				11/26/14 16:05	11/28/14 16:03	5
2-Fluorophenol	65		18 - 120				11/26/14 16:05	11/28/14 16:03	5
Nitrobenzene-d5	57		34 - 132				11/26/14 16:05	11/28/14 16:03	5
Phenol-d5	64		11 - 120				11/26/14 16:05	11/28/14 16:03	5
p-Terphenyl-d14	86		65 - 153				11/26/14 16:05	11/28/14 16:03	5

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PAH EXC. SIDEWALL-EAST

Lab Sample ID: 480-71974-10

Date Collected: 11/17/14 16:00

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		2100	430	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
2,6-Dinitrotoluene	ND		2100	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
2-Chloronaphthalene	ND		2100	340	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
2-Methylnaphthalene	ND		2100	410	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
2-Nitroaniline	ND		4000	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
3,3'-Dichlorobenzidine	ND		4000	2400	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
3-Nitroaniline	ND		4000	570	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
4-Bromophenyl phenyl ether	ND		2100	290	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
4-Chloroaniline	ND		2100	510	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
4-Chlorophenyl phenyl ether	ND		2100	260	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
4-Nitroaniline	ND		4000	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Acenaphthene	ND		2100	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Acenaphthylene	ND		2100	270	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Acetophenone	ND		2100	280	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Anthracene	ND		2100	510	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Atrazine	ND		2100	720	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Benzaldehyde	ND		2100	1600	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Benzo(a)anthracene	530	J	2100	210	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Benzo(a)pyrene	1100	J	2100	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Benzo(b)fluoranthene	1800	J	2100	330	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Benzo(g,h,i)perylene	ND		2100	220	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Benzo(k)fluoranthene	290	J	2100	270	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Biphenyl	ND		2100	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
bis (2-chloroisopropyl) ether	ND		2100	410	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Bis(2-chloroethoxy)methane	ND		2100	440	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Bis(2-chloroethyl)ether	ND		2100	270	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Bis(2-ethylhexyl) phthalate	ND		2100	710	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Butyl benzyl phthalate	ND		2100	340	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Caprolactam	ND		2100	620	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Carbazole	ND		2100	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Chrysene	470	J	2100	460	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Dibenz(a,h)anthracene	ND		2100	360	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Dibenzofuran	ND		2100	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Diethyl phthalate	ND		2100	270	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Dimethyl phthalate	ND		2100	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Di-n-butyl phthalate	ND		2100	350	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Di-n-octyl phthalate	ND		2100	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Fluoranthene	1000	J	2100	220	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Fluorene	ND		2100	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Hexachlorobenzene	ND		2100	280	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Hexachlorobutadiene	ND		2100	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Hexachlorocyclopentadiene	ND		2100	280	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Hexachloroethane	ND		2100	270	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Indeno(1,2,3-cd)pyrene	ND		2100	260	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Isophorone	ND		2100	440	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Naphthalene	ND		2100	270	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Nitrobenzene	ND		2100	230	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
N-Nitrosodi-n-propylamine	ND		2100	350	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
N-Nitrosodiphenylamine	ND		2100	1700	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PAH EXC. SIDEWALL-EAST

Lab Sample ID: 480-71974-10

Date Collected: 11/17/14 16:00

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	820	J	2100	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Pyrene	740	J	2100	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:28	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		39 - 146				11/26/14 16:05	11/28/14 16:28	10
2-Fluorobiphenyl	74		37 - 120				11/26/14 16:05	11/28/14 16:28	10
2-Fluorophenol	67		18 - 120				11/26/14 16:05	11/28/14 16:28	10
Nitrobenzene-d5	61		34 - 132				11/26/14 16:05	11/28/14 16:28	10
Phenol-d5	66		11 - 120				11/26/14 16:05	11/28/14 16:28	10
p-Terphenyl-d14	91		65 - 153				11/26/14 16:05	11/28/14 16:28	10

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PAH EXC. SIDEWALL-SOUTH

Lab Sample ID: 480-71974-11

Date Collected: 11/17/14 16:05

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		2000	420	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
2,6-Dinitrotoluene	ND		2000	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
2-Chloronaphthalene	ND		2000	330	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
2-Methylnaphthalene	ND		2000	410	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
2-Nitroaniline	ND		3900	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
3,3'-Dichlorobenzidine	ND		3900	2400	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
3-Nitroaniline	ND		3900	560	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
4-Bromophenyl phenyl ether	ND		2000	290	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
4-Chloroaniline	ND		2000	500	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
4-Chlorophenyl phenyl ether	ND		2000	250	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
4-Nitroaniline	ND		3900	1100	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Acenaphthene	ND		2000	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Acenaphthylene	ND		2000	260	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Acetophenone	ND		2000	270	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Anthracene	ND		2000	500	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Atrazine	ND		2000	700	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Benzaldehyde	ND		2000	1600	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Benzo(a)anthracene	240	J	2000	200	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Benzo(a)pyrene	920	J	2000	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Benzo(b)fluoranthene	1500	J	2000	320	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Benzo(g,h,i)perylene	ND		2000	210	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Benzo(k)fluoranthene	ND		2000	260	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Biphenyl	ND		2000	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
bis (2-chloroisopropyl) ether	ND		2000	410	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Bis(2-chloroethoxy)methane	ND		2000	430	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Bis(2-chloroethyl)ether	ND		2000	260	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Bis(2-ethylhexyl) phthalate	ND		2000	690	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Butyl benzyl phthalate	ND		2000	330	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Caprolactam	ND		2000	610	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Carbazole	ND		2000	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Chrysene	ND		2000	450	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Dibenz(a,h)anthracene	ND		2000	360	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Dibenzofuran	ND		2000	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Diethyl phthalate	ND		2000	260	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Dimethyl phthalate	ND		2000	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Di-n-butyl phthalate	ND		2000	350	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Di-n-octyl phthalate	ND		2000	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Fluoranthene	450	J	2000	210	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Fluorene	ND		2000	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Hexachlorobenzene	ND		2000	270	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Hexachlorobutadiene	ND		2000	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Hexachlorocyclopentadiene	ND		2000	270	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Hexachloroethane	ND		2000	260	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Indeno(1,2,3-cd)pyrene	1700	J	2000	250	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Isophorone	ND		2000	430	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Naphthalene	ND		2000	260	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Nitrobenzene	ND		2000	230	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
N-Nitrosodi-n-propylamine	ND		2000	350	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
N-Nitrosodiphenylamine	ND		2000	1600	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PAH EXC. SIDEWALL-SOUTH

Lab Sample ID: 480-71974-11

Date Collected: 11/17/14 16:05

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	330	J	2000	300	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Pyrene	360	J	2000	240	ug/Kg	☼	11/26/14 16:05	11/28/14 16:52	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		39 - 146				11/26/14 16:05	11/28/14 16:52	10
2-Fluorobiphenyl	71		37 - 120				11/26/14 16:05	11/28/14 16:52	10
2-Fluorophenol	62		18 - 120				11/26/14 16:05	11/28/14 16:52	10
Nitrobenzene-d5	59		34 - 132				11/26/14 16:05	11/28/14 16:52	10
Phenol-d5	59		11 - 120				11/26/14 16:05	11/28/14 16:52	10
p-Terphenyl-d14	83		65 - 153				11/26/14 16:05	11/28/14 16:52	10

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. BOTTOM-01

Lab Sample ID: 480-71974-1

Date Collected: 11/17/14 12:25

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			216254	11/27/14 00:04	CDC	TAL BUF
Total/NA	Analysis	8260C		1	216246	11/27/14 00:46	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

Client Sample ID: PETROLEUM EXC. BOTTOM-02

Lab Sample ID: 480-71974-2

Date Collected: 11/17/14 12:40

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			216254	11/27/14 00:04	CDC	TAL BUF
Total/NA	Analysis	8260C		1	216246	11/27/14 01:12	CDC	TAL BUF
Total/NA	Prep	3050B			216368	11/28/14 15:38	EJT	TAL BUF
Total/NA	Analysis	6010C		1	216689	12/01/14 22:05	LMH	TAL BUF
Total/NA	Prep	7471B			216499	12/01/14 10:45	LRK	TAL BUF
Total/NA	Analysis	7471B		1	216658	12/01/14 16:05	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

Client Sample ID: PETROLEUM EXC. SIDEWALL-NORTH

Lab Sample ID: 480-71974-3

Date Collected: 11/17/14 12:00

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			216254	11/27/14 00:04	CDC	TAL BUF
Total/NA	Analysis	8260C		1	216246	11/27/14 01:37	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

Client Sample ID: PETROLEUM EXC. SIDEWALL-SOUTH

Lab Sample ID: 480-71974-4

Date Collected: 11/17/14 14:20

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			216254	11/27/14 00:04	CDC	TAL BUF
Total/NA	Analysis	8260C		1	216246	11/27/14 02:03	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

Client Sample ID: PETROLEUM EXC. SIDEWALL-EAST

Lab Sample ID: 480-71974-5

Date Collected: 11/17/14 14:00

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			216254	11/27/14 00:04	CDC	TAL BUF
Total/NA	Analysis	8260C		1	216246	11/27/14 02:28	CDC	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PETROLEUM EXC. SIDEWALL-EAST

Lab Sample ID: 480-71974-5

Date Collected: 11/17/14 14:00

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			216368	11/28/14 15:38	EJT	TAL BUF
Total/NA	Analysis	6010C		1	216689	12/01/14 22:08	LMH	TAL BUF
Total/NA	Prep	7471B			216499	12/01/14 10:45	LRK	TAL BUF
Total/NA	Analysis	7471B		1	216658	12/01/14 16:06	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

Client Sample ID: PETROLEUM EXC. SIDEWALL-WEST

Lab Sample ID: 480-71974-6

Date Collected: 11/17/14 13:45

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			216254	11/27/14 00:04	CDC	TAL BUF
Total/NA	Analysis	8260C		1	216246	11/27/14 02:54	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

Client Sample ID: PAH EXC. BOTTOM-01

Lab Sample ID: 480-71974-7

Date Collected: 11/17/14 16:20

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			216216	11/26/14 16:05	RJS	TAL BUF
Total/NA	Analysis	8270D		5	216271	11/28/14 15:15	LMW	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

Client Sample ID: PAH EXC. SIDEWALL-NORTH

Lab Sample ID: 480-71974-8

Date Collected: 11/17/14 15:55

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			216216	11/26/14 16:05	RJS	TAL BUF
Total/NA	Analysis	8270D		20	216271	11/28/14 15:39	LMW	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

Client Sample ID: PAH EXC. SIDEWALL-WEST

Lab Sample ID: 480-71974-9

Date Collected: 11/17/14 16:15

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			216216	11/26/14 16:05	RJS	TAL BUF
Total/NA	Analysis	8270D		5	216271	11/28/14 16:03	LMW	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Client Sample ID: PAH EXC. SIDEWALL-EAST

Lab Sample ID: 480-71974-10

Date Collected: 11/17/14 16:00

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			216216	11/26/14 16:05	RJS	TAL BUF
Total/NA	Analysis	8270D		10	216271	11/28/14 16:28	LMW	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

Client Sample ID: PAH EXC. SIDEWALL-SOUTH

Lab Sample ID: 480-71974-11

Date Collected: 11/17/14 16:05

Matrix: Solid

Date Received: 11/25/14 13:25

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			216216	11/26/14 16:05	RJS	TAL BUF
Total/NA	Analysis	8270D		10	216271	11/28/14 16:52	LMW	TAL BUF
Total/NA	Analysis	Moisture		1	215992	11/25/14 19:13	MAC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 500 Seneca St.

TestAmerica Job ID: 480-71974-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-71974-1	PETROLEUM EXC. BOTTOM-01	Solid	11/17/14 12:25	11/25/14 13:25
480-71974-2	PETROLEUM EXC. BOTTOM-02	Solid	11/17/14 12:40	11/25/14 13:25
480-71974-3	PETROLEUM EXC. SIDEWALL-NORTH	Solid	11/17/14 12:00	11/25/14 13:25
480-71974-4	PETROLEUM EXC. SIDEWALL-SOUTH	Solid	11/17/14 14:20	11/25/14 13:25
480-71974-5	PETROLEUM EXC. SIDEWALL-EAST	Solid	11/17/14 14:00	11/25/14 13:25
480-71974-6	PETROLEUM EXC. SIDEWALL-WEST	Solid	11/17/14 13:45	11/25/14 13:25
480-71974-7	PAH EXC. BOTTOM-01	Solid	11/17/14 16:20	11/25/14 13:25
480-71974-8	PAH EXC. SIDEWALL-NORTH	Solid	11/17/14 15:55	11/25/14 13:25
480-71974-9	PAH EXC. SIDEWALL-WEST	Solid	11/17/14 16:15	11/25/14 13:25
480-71974-10	PAH EXC. SIDEWALL-EAST	Solid	11/17/14 16:00	11/25/14 13:25
480-71974-11	PAH EXC. SIDEWALL-SOUTH	Solid	11/17/14 16:05	11/25/14 13:25

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-71974-1

Login Number: 71974

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BMTK
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



Chain of
Custody Receipt

480-71974 Chain of Custody

TAL-4124 (1007)

TestAmerica

Temperature on Receipt

THE LEADER IN ENVIRONMENTAL TESTING

Drinking Water? Yes ☐ No ☐

Client	Borvik	Project Manager	Notz Murkey	Date	11/25/14	Chain of Custody Number	278832
Address	2550 Hamburg Turnpike	Telephone Number (Area Code)/Fax Number	716 856-0599	Lab Number			
City	Buffalo	Site Contact	Sean Fallon	Lab Contact	Sean Fischer	Page	1 of 1
Project Name and Location (State)		Carrier/Waybill Number					

Contract/Purchase Order/Quote No.	0220-012-001	Analysis (Attach list if more space is needed)	
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives				
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH
Petroleum Exc. Bottom-01	11-17-14	12:25				X	X					
" Bottom-02	"	12:40				X	X					
" Sidewall-North	"	12:00				X	X					
" Sidewall-South	"	14:00				X	X					
" Sidewall-East	"	14:00				X	X					
" Sidewall-West	"	13:45				X	X					
PAH Exc. Bottom-01	"	16:20				X	X					
" Sidewall-North	"	15:55				X	X					
" Sidewall-West	"	16:15				X	X					
" Sidewall-East	"	16:00				X	X					
" Sidewall-South	"	16:05				X	X					

Possible Hazard Identification	Sample Disposal	QC Requirements (Specify)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown	☒ Disposal By Lab ☐ Archive For ☐ Return To Client	
Turn Around Time Required		
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other: 25D		

1. Relinquished By	Sean Fallon	Date	11-25-14	Time	11:45	1. Received By	Sean Fallon	Date	11/25/14	Time	1150
2. Relinquished By	Sean Fallon	Date	11/25/14	Time	1325	2. Received By	Sean Fallon	Date	11/25/14	Time	1325
3. Relinquished By		Date		Time		3. Received By		Date		Time	

Comments	719 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



ANALYTICAL REPORT

Lab Number:	L1502006
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 225-3314
Project Name:	500 SENECA ST. SITE
Project Number:	0270-012-001
Report Date:	02/06/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 500 SENECA ST. SITE
Project Number: 0270-012-001

Lab Number: L1502006
Report Date: 02/06/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1502006-01	POST EXC NORTHWALL	SOIL	500 SENECA ST.	01/30/15 10:00	01/30/15
L1502006-02	POST EXC SOUTHWALL	SOIL	500 SENECA ST.	01/30/15 10:15	01/30/15
L1502006-03	POST EXC EASTWALL	SOIL	500 SENECA ST.	01/30/15 10:30	01/30/15
L1502006-04	POST EXC WESTWALL	SOIL	500 SENECA ST.	01/30/15 10:45	01/30/15
L1502006-05	BLIND DUP	SOIL	500 SENECA ST.	01/30/15 08:00	01/30/15

Project Name: 500 SENECA ST. SITE
Project Number: 0270-012-001

Lab Number: L1502006
Report Date: 02/06/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 500 SENECA ST. SITE
Project Number: 0270-012-001

Lab Number: L1502006
Report Date: 02/06/15

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

The WG760511-4/-5 MS/MSD recoveries, performed on L1502006-01, are outside the acceptance criteria for tetrachloroethene (17%/22%), bromoform (67%), 1,1,2,2-tetrachloroethane (69%), 1,2-dichlorobenzene (59%/59%), 1,3-dichlorobenzene (60%/58%), 1,4-dichlorobenzene (59%/58%), styrene (MSD 68%), vinyl acetate (41%/55%), 4-methyl-2-pentanone (MS 68%), 1,2,3-trichloropropane (MS 67%), 2-hexanone (MS 68%), bromobenzene (66%/66%), n-butylbenzene (58%/55%), sec-butylbenzene (64%/61%), tert-butylbenzene (67%/66%), o-chlorotoluene (67%/67%), p-chlorotoluene (64%/61%), 1,2-dibromo-3-chloropropane (56%/64%), hexachlorobutadiene (46%/48%), isopropylbenzene (MSD 68%), p-isopropyltoluene (62%/61%), naphthalene (41%/47%), n-propylbenzene (66%/63%), 1,2,3-trichlorobenzene (42%/43%), 1,2,4-trichlorobenzene (44%/44%), 1,3,5-trimethylbenzene (67%/66%), 1,2,4-trimethylbenzene (65%/64%), ethyl acetate (MS 69%), 1,4-diethylbenzene (59%/57%), 4-ethyltoluene (67%/64%), 1,2,4,5-tetramethylbenzene (54%/53%), trans-1,4-dichloro-2-butene (65%/63%), methyl cyclohexane (63%/63%); however, the associated LCS/LCSD recoveries are within overall method allowances. No further action was required. The WG760511-5 MS/MSD RPDs, performed on L1502006-01, are above the acceptance criteria for dichlorodifluoromethane (32%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Cynthia McQueen

Title: Technical Director/Representative

Date: 02/06/15

ORGANICS

VOLATILES

Project Name: 500 SENECA ST. SITE**Lab Number:** L1502006**Project Number:** 0270-012-001**Report Date:** 02/06/15**SAMPLE RESULTS**

Lab ID: L1502006-01
Client ID: POST EXC NORTHWALL
Sample Location: 500 SENECA ST.
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/03/15 10:05
Analyst: BN
Percent Solids: 81%

Date Collected: 01/30/15 10:00
Date Received: 01/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	27		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.1	0.36	1
Bromomethane	ND		ug/kg	2.4	0.42	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	5.8		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.17	1

Project Name: 500 SENECA ST. SITE**Lab Number:** L1502006**Project Number:** 0270-012-001**Report Date:** 02/06/15**SAMPLE RESULTS****Lab ID:** L1502006-01**Date Collected:** 01/30/15 10:00**Client ID:** POST EXC NORTHWALL**Date Received:** 01/30/15**Sample Location:** 500 SENECA ST.**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.24	1
o-Xylene	ND		ug/kg	2.4	0.21	1
cis-1,2-Dichloroethene	1.4		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	15		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	1.4	J	ug/kg	12	0.33	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.1	0.34	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.22	1
Methyl Acetate	ND		ug/kg	24	0.33	1
Cyclohexane	ND		ug/kg	24	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	24	0.34	1
Methyl cyclohexane	ND		ug/kg	4.9	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: 500 SENECA ST. SITE**Lab Number:** L1502006**Project Number:** 0270-012-001**Report Date:** 02/06/15**SAMPLE RESULTS**

Lab ID: L1502006-02
Client ID: POST EXC SOUTHWALL
Sample Location: 500 SENECA ST.
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/03/15 11:24
Analyst: BN
Percent Solids: 77%

Date Collected: 01/30/15 10:15
Date Received: 01/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	13	1.4	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.11	1
Chloroform	ND		ug/kg	2.0	0.48	1
Carbon tetrachloride	ND		ug/kg	1.3	0.27	1
1,2-Dichloropropane	ND		ug/kg	4.6	0.30	1
Dibromochloromethane	ND		ug/kg	1.3	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.40	1
Tetrachloroethene	4.9		ug/kg	1.3	0.18	1
Chlorobenzene	ND		ug/kg	1.3	0.45	1
Trichlorofluoromethane	ND		ug/kg	6.5	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.14	1
Bromodichloromethane	ND		ug/kg	1.3	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
Bromoform	ND		ug/kg	5.2	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.13	1
Benzene	ND		ug/kg	1.3	0.15	1
Toluene	ND		ug/kg	2.0	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.16	1
Chloromethane	ND		ug/kg	6.5	0.38	1
Bromomethane	ND		ug/kg	2.6	0.44	1
Vinyl chloride	ND		ug/kg	2.6	0.15	1
Chloroethane	ND		ug/kg	2.6	0.41	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.28	1
Trichloroethene	1.4		ug/kg	1.3	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	6.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	6.5	0.18	1

Project Name: 500 SENECA ST. SITE

Lab Number: L1502006

Project Number: 0270-012-001

Report Date: 02/06/15

SAMPLE RESULTS

Lab ID: L1502006-02

Date Collected: 01/30/15 10:15

Client ID: POST EXC SOUTHWALL

Date Received: 01/30/15

Sample Location: 500 SENECA ST.

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.6	0.11	1
p/m-Xylene	ND		ug/kg	2.6	0.26	1
o-Xylene	ND		ug/kg	2.6	0.22	1
cis-1,2-Dichloroethene	0.91	J	ug/kg	1.3	0.18	1
Styrene	ND		ug/kg	2.6	0.52	1
Dichlorodifluoromethane	ND		ug/kg	13	0.25	1
Acetone	8.4	J	ug/kg	13	1.3	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.35	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.32	1
2-Hexanone	ND		ug/kg	13	0.87	1
Bromochloromethane	ND		ug/kg	6.5	0.36	1
1,2-Dibromoethane	ND		ug/kg	5.2	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.5	0.51	1
Isopropylbenzene	ND		ug/kg	1.3	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.5	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.5	0.24	1
Methyl Acetate	ND		ug/kg	26	0.35	1
Cyclohexane	ND		ug/kg	26	0.19	1
1,4-Dioxane	ND		ug/kg	130	19.	1
Freon-113	ND		ug/kg	26	0.36	1
Methyl cyclohexane	ND		ug/kg	5.2	0.20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: 500 SENECA ST. SITE**Lab Number:** L1502006**Project Number:** 0270-012-001**Report Date:** 02/06/15**SAMPLE RESULTS**

Lab ID: L1502006-03
Client ID: POST EXC EASTWALL
Sample Location: 500 SENECA ST.
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/03/15 16:15
Analyst: BN
Percent Solids: 82%

Date Collected: 01/30/15 10:30
Date Received: 01/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	4.6		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.1	0.36	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	0.58	J	ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.17	1

Project Name: 500 SENECA ST. SITE**Lab Number:** L1502006**Project Number:** 0270-012-001**Report Date:** 02/06/15**SAMPLE RESULTS**

Lab ID: L1502006-03
 Client ID: POST EXC EASTWALL
 Sample Location: 500 SENECA ST.

Date Collected: 01/30/15 10:30
 Date Received: 01/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.24	1
o-Xylene	ND		ug/kg	2.4	0.21	1
cis-1,2-Dichloroethene	3.1		ug/kg	1.2	0.17	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	13		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.33	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.81	1
Bromochloromethane	ND		ug/kg	6.1	0.34	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.48	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.22	1
Methyl Acetate	ND		ug/kg	24	0.33	1
Cyclohexane	ND		ug/kg	24	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	24	0.33	1
Methyl cyclohexane	ND		ug/kg	4.9	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: 500 SENECA ST. SITE**Lab Number:** L1502006**Project Number:** 0270-012-001**Report Date:** 02/06/15**SAMPLE RESULTS**

Lab ID: L1502006-04 D
Client ID: POST EXC WESTWALL
Sample Location: 500 SENECA ST.
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/03/15 12:17
Analyst: BN
Percent Solids: 77%

Date Collected: 01/30/15 10:45
Date Received: 01/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	1300	140	100
1,1-Dichloroethane	ND		ug/kg	190	11.	100
Chloroform	ND		ug/kg	190	48.	100
Carbon tetrachloride	ND		ug/kg	130	27.	100
1,2-Dichloropropane	ND		ug/kg	450	29.	100
Dibromochloromethane	ND		ug/kg	130	20.	100
1,1,2-Trichloroethane	ND		ug/kg	190	39.	100
Tetrachloroethene	17000		ug/kg	130	18.	100
Chlorobenzene	ND		ug/kg	130	45.	100
Trichlorofluoromethane	ND		ug/kg	640	50.	100
1,2-Dichloroethane	ND		ug/kg	130	15.	100
1,1,1-Trichloroethane	ND		ug/kg	130	14.	100
Bromodichloromethane	ND		ug/kg	130	22.	100
trans-1,3-Dichloropropene	ND		ug/kg	130	16.	100
cis-1,3-Dichloropropene	ND		ug/kg	130	15.	100
Bromoform	ND		ug/kg	520	30.	100
1,1,2,2-Tetrachloroethane	ND		ug/kg	130	13.	100
Benzene	ND		ug/kg	130	15.	100
Toluene	ND		ug/kg	190	25.	100
Ethylbenzene	ND		ug/kg	130	16.	100
Chloromethane	ND		ug/kg	640	38.	100
Bromomethane	ND		ug/kg	260	44.	100
Vinyl chloride	ND		ug/kg	260	15.	100
Chloroethane	ND		ug/kg	260	41.	100
1,1-Dichloroethene	ND		ug/kg	130	34.	100
trans-1,2-Dichloroethene	ND		ug/kg	190	27.	100
Trichloroethene	520		ug/kg	130	16.	100
1,2-Dichlorobenzene	ND		ug/kg	640	20.	100
1,3-Dichlorobenzene	ND		ug/kg	640	17.	100
1,4-Dichlorobenzene	ND		ug/kg	640	18.	100

Project Name: 500 SENECA ST. SITE

Lab Number: L1502006

Project Number: 0270-012-001

Report Date: 02/06/15

SAMPLE RESULTS

Lab ID: L1502006-04 D
 Client ID: POST EXC WESTWALL
 Sample Location: 500 SENECA ST.

Date Collected: 01/30/15 10:45
 Date Received: 01/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	260	11.	100
p/m-Xylene	ND		ug/kg	260	26.	100
o-Xylene	ND		ug/kg	260	22.	100
cis-1,2-Dichloroethene	72	J	ug/kg	130	18.	100
Styrene	ND		ug/kg	260	52.	100
Dichlorodifluoromethane	ND		ug/kg	1300	25.	100
Acetone	850	J	ug/kg	1300	130	100
Carbon disulfide	ND		ug/kg	1300	140	100
2-Butanone	ND		ug/kg	1300	35.	100
4-Methyl-2-pentanone	ND		ug/kg	1300	32.	100
2-Hexanone	ND		ug/kg	1300	86.	100
Bromochloromethane	ND		ug/kg	640	36.	100
1,2-Dibromoethane	ND		ug/kg	520	22.	100
1,2-Dibromo-3-chloropropane	ND		ug/kg	640	51.	100
Isopropylbenzene	ND		ug/kg	130	13.	100
1,2,3-Trichlorobenzene	ND		ug/kg	640	19.	100
1,2,4-Trichlorobenzene	ND		ug/kg	640	23.	100
Methyl Acetate	ND		ug/kg	2600	35.	100
Cyclohexane	ND		ug/kg	2600	19.	100
1,4-Dioxane	ND		ug/kg	13000	1900	100
Freon-113	ND		ug/kg	2600	35.	100
Methyl cyclohexane	ND		ug/kg	520	20.	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: 500 SENECA ST. SITE
Project Number: 0270-012-001

Lab Number: L1502006
Report Date: 02/06/15

SAMPLE RESULTS

Lab ID: L1502006-05
Client ID: BLIND DUP
Sample Location: 500 SENECA ST.
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/03/15 12:43
Analyst: BN
Percent Solids: 80%

Date Collected: 01/30/15 08:00
Date Received: 01/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	2.6		ug/kg	1.2	0.18	1
Chlorobenzene	ND		ug/kg	1.2	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.13	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.37	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.33	1
trans-1,2-Dichloroethene	0.47	J	ug/kg	1.9	0.26	1
Trichloroethene	0.88	J	ug/kg	1.2	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1

Project Name: 500 SENECA ST. SITE

Lab Number: L1502006

Project Number: 0270-012-001

Report Date: 02/06/15

SAMPLE RESULTS

Lab ID: L1502006-05

Date Collected: 01/30/15 08:00

Client ID: BLIND DUP

Date Received: 01/30/15

Sample Location: 500 SENECA ST.

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.25	1
o-Xylene	ND		ug/kg	2.5	0.22	1
cis-1,2-Dichloroethene	2.7		ug/kg	1.2	0.18	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	13		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
2-Hexanone	ND		ug/kg	12	0.83	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.50	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.23	1
Methyl Acetate	ND		ug/kg	25	0.34	1
Cyclohexane	ND		ug/kg	25	0.18	1
1,4-Dioxane	ND		ug/kg	120	18.	1
Freon-113	ND		ug/kg	25	0.34	1
Methyl cyclohexane	ND		ug/kg	5.0	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Project Name: 500 SENECA ST. SITE

Lab Number: L1502006

Project Number: 0270-012-001

Report Date: 02/06/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/03/15 09:39
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG760511-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

Project Name: 500 SENECA ST. SITE

Lab Number: L1502006

Project Number: 0270-012-001

Report Date: 02/06/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/03/15 09:39
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG760511-3					
1,4-Dichlorobenzene	0.29	J	ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Project Name: 500 SENECA ST. SITE

Lab Number: L1502006

Project Number: 0270-012-001

Report Date: 02/06/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 02/03/15 09:39

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG760511-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST. SITE

Project Number: 0270-012-001

Lab Number: L1502006

Report Date: 02/06/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG760511-1 WG760511-2								
Methylene chloride	105		105		70-130	0		30
1,1-Dichloroethane	104		108		70-130	4		30
Chloroform	103		106		70-130	3		30
Carbon tetrachloride	103		114		70-130	10		30
1,2-Dichloropropane	104		106		70-130	2		30
Dibromochloromethane	98		94		70-130	4		30
2-Chloroethylvinyl ether	98		94		70-130	4		30
1,1,2-Trichloroethane	101		95		70-130	6		30
Tetrachloroethene	95		102		70-130	7		30
Chlorobenzene	95		97		70-130	2		30
Trichlorofluoromethane	111		122		70-139	9		30
1,2-Dichloroethane	106		104		70-130	2		30
1,1,1-Trichloroethane	104		110		70-130	6		30
Bromodichloromethane	104		103		70-130	1		30
trans-1,3-Dichloropropene	98		96		70-130	2		30
cis-1,3-Dichloropropene	101		101		70-130	0		30
1,1-Dichloropropene	103		110		70-130	7		30
Bromoform	93		88		70-130	6		30
1,1,2,2-Tetrachloroethane	95		88		70-130	8		30
Benzene	102		106		70-130	4		30
Toluene	94		97		70-130	3		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 500 SENECA ST. SITE

Project Number: 0270-012-001

Lab Number: L1502006

Report Date: 02/06/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG760511-1 WG760511-2								
Ethylbenzene	94		98		70-130	4		30
Chloromethane	128		136	Q	52-130	6		30
Bromomethane	120		126		57-147	5		30
Vinyl chloride	128		138	Q	67-130	8		30
Chloroethane	115		124		50-151	8		30
1,1-Dichloroethene	107		118		65-135	10		30
trans-1,2-Dichloroethene	104		110		70-130	6		30
Trichloroethene	102		106		70-130	4		30
1,2-Dichlorobenzene	94		93		70-130	1		30
1,3-Dichlorobenzene	94		95		70-130	1		30
1,4-Dichlorobenzene	93		94		70-130	1		30
Methyl tert butyl ether	103		100		66-130	3		30
p/m-Xylene	95		97		70-130	2		30
o-Xylene	93		96		70-130	3		30
cis-1,2-Dichloroethene	102		106		70-130	4		30
Dibromomethane	106		102		70-130	4		30
Styrene	94		95		70-130	1		30
Dichlorodifluoromethane	137		153	Q	30-146	11		30
Acetone	116		102		54-140	13		30
Carbon disulfide	113		121		59-130	7		30
2-Butanone	106		100		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST. SITE

Project Number: 0270-012-001

Lab Number: L1502006

Report Date: 02/06/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG760511-1 WG760511-2								
Vinyl acetate	106		101		70-130	5		30
4-Methyl-2-pentanone	95		88		70-130	8		30
1,2,3-Trichloropropane	91		87		68-130	4		30
2-Hexanone	90		83		70-130	8		30
Bromochloromethane	107		107		70-130	0		30
2,2-Dichloropropane	105		111		70-130	6		30
1,2-Dibromoethane	99		94		70-130	5		30
1,3-Dichloropropane	99		97		69-130	2		30
1,1,1,2-Tetrachloroethane	97		98		70-130	1		30
Bromobenzene	92		93		70-130	1		30
n-Butylbenzene	91		96		70-130	5		30
sec-Butylbenzene	90		96		70-130	6		30
tert-Butylbenzene	90		94		70-130	4		30
o-Chlorotoluene	93		95		70-130	2		30
p-Chlorotoluene	92		94		70-130	2		30
1,2-Dibromo-3-chloropropane	90		83		68-130	8		30
Hexachlorobutadiene	90		95		67-130	5		30
Isopropylbenzene	89		94		70-130	5		30
p-Isopropyltoluene	91		95		70-130	4		30
Naphthalene	88		84		70-130	5		30
Acrylonitrile	113		101		70-130	11		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 500 SENECA ST. SITE

Project Number: 0270-012-001

Lab Number: L1502006

Report Date: 02/06/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG760511-1 WG760511-2								
Isopropyl Ether	103		103		66-130	0		30
tert-Butyl Alcohol	99		89		70-130	11		30
n-Propylbenzene	89		94		70-130	5		30
1,2,3-Trichlorobenzene	92		92		70-130	0		30
1,2,4-Trichlorobenzene	92		92		70-130	0		30
1,3,5-Trimethylbenzene	91		94		70-130	3		30
1,2,4-Trimethylbenzene	90		93		70-130	3		30
Methyl Acetate	102		95		51-146	7		30
Ethyl Acetate	104		95		70-130	9		30
Acrolein	101		98		70-130	3		30
Cyclohexane	108		118		59-142	9		30
1,4-Dioxane	97		94		65-136	3		30
Freon-113	108		118		50-139	9		30
1,4-Diethylbenzene	89		95		70-130	7		30
4-Ethyltoluene	90		94		70-130	4		30
1,2,4,5-Tetramethylbenzene	90		91		70-130	1		30
Tetrahydrofuran	106		96		66-130	10		30
Ethyl ether	115		108		67-130	6		30
trans-1,4-Dichloro-2-butene	94		85		70-130	10		30
Methyl cyclohexane	101		111		70-130	9		30
Ethyl-Tert-Butyl-Ether	102		103		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST. SITE

Lab Number: L1502006

Project Number: 0270-012-001

Report Date: 02/06/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG760511-1 WG760511-2								
Tertiary-Amyl Methyl Ether	102		100		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		100		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	99		100		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 500 SENECA ST. SITE

Project Number: 0270-012-001

Lab Number: L1502006

Report Date: 02/06/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG760511-4 WG760511-5 QC Sample: L1502006-01 Client ID: POST EXC NORTHWALL												
Methylene chloride	ND	24.6	22	90		23	92		70-130	2		30
1,1-Dichloroethane	ND	24.6	24	96		23	93		70-130	3		30
Chloroform	ND	24.6	23	92		23	94		70-130	2		30
Carbon tetrachloride	ND	24.6	23	92		22	89		70-130	3		30
1,2-Dichloropropane	ND	24.6	22	91		22	90		70-130	1		30
Dibromochloromethane	ND	24.6	19	77		19	79		70-130	2		30
2-Chloroethylvinyl ether	ND	24.6	18J	72		20J	81		70-130	12		30
1,1,2-Trichloroethane	ND	24.6	20	81		21	83		70-130	3		30
Tetrachloroethene	27	24.6	31	17	Q	32	22	Q	70-130	4		30
Chlorobenzene	ND	24.6	19	76		18	74		70-130	2		30
Trichlorofluoromethane	ND	24.6	22	91		22	88		70-139	4		30
1,2-Dichloroethane	ND	24.6	22	90		22	91		70-130	1		30
1,1,1-Trichloroethane	ND	24.6	24	96		23	93		70-130	3		30
Bromodichloromethane	ND	24.6	22	89		22	89		70-130	0		30
trans-1,3-Dichloropropene	ND	24.6	19	77		19	76		70-130	2		30
cis-1,3-Dichloropropene	ND	24.6	20	83		20	81		70-130	2		30
1,1-Dichloropropene	ND	24.6	22	89		21	83		70-130	7		30
Bromoform	ND	24.6	17	67	Q	18	71		70-130	6		30
1,1,2,2-Tetrachloroethane	ND	24.6	17	69	Q	18	74		70-130	7		30
Benzene	ND	24.6	22	91		22	89		70-130	3		30
Toluene	ND	24.6	20	82		19	79		70-130	4		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 500 SENECA ST. SITE

Project Number: 0270-012-001

Lab Number: L1502006

Report Date: 02/06/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG760511-4 WG760511-5 QC Sample: L1502006-01 Client ID: POST EXC NORTHWALL												
Ethylbenzene	ND	24.6	19	78		18	74		70-130	5		30
Chloromethane	ND	24.6	25	100		24	96		52-130	5		30
Bromomethane	ND	24.6	26	107		25	102		57-147	5		30
Vinyl chloride	ND	24.6	26	106		25	101		67-130	4		30
Chloroethane	ND	24.6	25	103		25	100		50-151	2		30
1,1-Dichloroethene	ND	24.6	24	96		22	90		65-135	6		30
trans-1,2-Dichloroethene	ND	24.6	23	94		22	88		70-130	7		30
Trichloroethene	5.8	24.6	27	86		26	83		70-130	3		30
1,2-Dichlorobenzene	ND	24.6	14	59	Q	15	59	Q	70-130	1		30
1,3-Dichlorobenzene	ND	24.6	15	60	Q	14	58	Q	70-130	3		30
1,4-Dichlorobenzene	ND	24.6	15	59	Q	14	58	Q	70-130	2		30
Methyl tert butyl ether	ND	24.6	20	83		22	90		66-130	8		30
p/m-Xylene	ND	49.1	37	76		36	74		70-130	3		30
o-Xylene	ND	49.1	37	74		36	74		70-130	0		30
cis-1,2-Dichloroethene	1.4	24.6	24	90		23	89		70-130	1		30
Dibromomethane	ND	24.6	21	86		22	89		70-130	4		30
Styrene	ND	49.1	34	70		34	68	Q	70-130	2		30
Dichlorodifluoromethane	ND	24.6	14	57		19	79		30-146	32	Q	30
Acetone	15	24.6	40	102		41	106		54-140	2		30
Carbon disulfide	ND	24.6	22	89		21	83		59-130	6		30
2-Butanone	1.4J	24.6	25	100		27	109		70-130	8		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 500 SENECA ST. SITE

Project Number: 0270-012-001

Lab Number: L1502006

Report Date: 02/06/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG760511-4 WG760511-5 QC Sample: L1502006-01 Client ID: POST EXC NORTHWALL												
Vinyl acetate	ND	24.6	10J	41	Q	14	55	Q	70-130	30		30
4-Methyl-2-pentanone	ND	24.6	17	68	Q	19	79		70-130	14		30
1,2,3-Trichloropropane	ND	24.6	17	67	Q	18	73		68-130	9		30
2-Hexanone	ND	24.6	17	68	Q	19	76		70-130	12		30
Bromochloromethane	ND	24.6	22	91		22	91		70-130	0		30
2,2-Dichloropropane	ND	24.6	24	98		23	94		70-130	3		30
1,2-Dibromoethane	ND	24.6	18	74		19	77		70-130	4		30
1,3-Dichloropropane	ND	24.6	20	80		20	82		69-130	3		30
1,1,1,2-Tetrachloroethane	ND	24.6	20	81		20	81		70-130	0		30
Bromobenzene	ND	24.6	16	66	Q	16	66	Q	70-130	1		30
n-Butylbenzene	ND	24.6	14	58	Q	14	55	Q	70-130	4		30
sec-Butylbenzene	ND	24.6	16	64	Q	15	61	Q	70-130	4		30
tert-Butylbenzene	ND	24.6	17	67	Q	16	66	Q	70-130	1		30
o-Chlorotoluene	ND	24.6	17	67	Q	17	67	Q	70-130	0		30
p-Chlorotoluene	ND	24.6	16	64	Q	15	61	Q	70-130	4		30
1,2-Dibromo-3-chloropropane	ND	24.6	14	56	Q	16	64	Q	68-130	12		30
Hexachlorobutadiene	ND	24.6	11	46	Q	12	48	Q	67-130	3		30
Isopropylbenzene	ND	24.6	17	70		17	68	Q	70-130	4		30
p-Isopropyltoluene	ND	24.6	15	62	Q	15	61	Q	70-130	2		30
Naphthalene	ND	24.6	10	41	Q	12	47	Q	70-130	14		30
Acrylonitrile	ND	24.6	20	80		22	90		70-130	11		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 500 SENECA ST. SITE

Project Number: 0270-012-001

Lab Number: L1502006

Report Date: 02/06/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG760511-4 WG760511-5 QC Sample: L1502006-01 Client ID: POST EXC NORTHWALL												
Isopropyl Ether	ND	24.6	22	89		22	91		66-130	2		30
tert-Butyl Alcohol	ND	123	86	70		100	82		70-130	17		30
n-Propylbenzene	ND	24.6	16	66	Q	16	63	Q	70-130	4		30
1,2,3-Trichlorobenzene	ND	24.6	10	42	Q	11	43	Q	70-130	1		30
1,2,4-Trichlorobenzene	ND	24.6	11	44	Q	11	44	Q	70-130	0		30
1,3,5-Trimethylbenzene	ND	24.6	17	67	Q	16	66	Q	70-130	2		30
1,2,4-Trimethylbenzene	ND	24.6	16	65	Q	16	64	Q	70-130	1		30
Methyl Acetate	ND	24.6	20J	80		23.J	92		51-146	14		30
Ethyl Acetate	ND	24.6	17J	69	Q	20.J	81		70-130	16		30
Acrolein	ND	24.6	19J	76		21.J	85		70-130	11		30
Cyclohexane	ND	24.6	19J	76		18.J	72		59-142	4		30
1,4-Dioxane	ND	1230	940	76		1100	91		65-136	18		30
Freon-113	ND	24.6	20J	81		19.J	79		50-139	3		30
1,4-Diethylbenzene	ND	24.6	15	59	Q	14	57	Q	70-130	5		30
4-Ethyltoluene	ND	24.6	16	67	Q	16	64	Q	70-130	4		30
1,2,4,5-Tetramethylbenzene	ND	24.6	13	54	Q	13	53	Q	70-130	1		30
Tetrahydrofuran	ND	24.6	19J	76		22.J	90		66-130	17		30
Ethyl ether	ND	24.6	21	86		23	93		67-130	7		30
trans-1,4-Dichloro-2-butene	ND	24.6	16	65	Q	15	63	Q	70-130	4		30
Methyl cyclohexane	ND	24.6	16	63	Q	15	63	Q	70-130	1		30
Ethyl-Tert-Butyl-Ether	ND	24.6	21	86		22	91		70-130	6		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 500 SENECA ST. SITE
Project Number: 0270-012-001

Lab Number: L1502006
Report Date: 02/06/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG760511-4 WG760511-5 QC Sample: L1502006-01 Client ID: POST EXC NORTHWALL												
Tertiary-Amyl Methyl Ether	ND	24.6	21	85		22	88		70-130	4		30

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,2-Dichloroethane-d4	98		103		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	101		102		70-130
Toluene-d8	97		97		70-130

INORGANICS & MISCELLANEOUS

Project Name: 500 SENECA ST. SITE
Project Number: 0270-012-001

Lab Number: L1502006
Report Date: 02/06/15

SAMPLE RESULTS

Lab ID: L1502006-01
Client ID: POST EXC NORTHWALL
Sample Location: 500 SENECA ST.
Matrix: Soil

Date Collected: 01/30/15 10:00
Date Received: 01/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	02/03/15 19:40	30,2540G	RT



Project Name: 500 SENECA ST. SITE
Project Number: 0270-012-001

Lab Number: L1502006
Report Date: 02/06/15

SAMPLE RESULTS

Lab ID: L1502006-02
Client ID: POST EXC SOUTHWALL
Sample Location: 500 SENECA ST.
Matrix: Soil

Date Collected: 01/30/15 10:15
Date Received: 01/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.9		%	0.100	NA	1	-	02/03/15 19:40	30,2540G	RT



Project Name: 500 SENECA ST. SITE

Project Number: 0270-012-001

Lab Number: L1502006

Report Date: 02/06/15

SAMPLE RESULTS

Lab ID: L1502006-03

Client ID: POST EXC EASTWALL

Sample Location: 500 SENECA ST.

Matrix: Soil

Date Collected: 01/30/15 10:30

Date Received: 01/30/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	02/03/15 19:40	30,2540G	RT



Project Name: 500 SENECA ST. SITE**Project Number:** 0270-012-001**Lab Number:** L1502006**Report Date:** 02/06/15**SAMPLE RESULTS**

Lab ID: L1502006-04
Client ID: POST EXC WESTWALL
Sample Location: 500 SENECA ST.
Matrix: Soil

Date Collected: 01/30/15 10:45
Date Received: 01/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	02/03/15 19:40	30,2540G	RT



Project Name: 500 SENECA ST. SITE**Project Number:** 0270-012-001**Lab Number:** L1502006**Report Date:** 02/06/15**SAMPLE RESULTS****Lab ID:** L1502006-05**Client ID:** BLIND DUP**Sample Location:** 500 SENECA ST.**Matrix:** Soil**Date Collected:** 01/30/15 08:00**Date Received:** 01/30/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.9		%	0.100	NA	1	-	02/03/15 19:40	30,2540G	RT



Project Name: 500 SENECA ST. SITE
Project Number: 0270-012-001

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1502006
Report Date: 02/06/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG760339-1 QC Sample: L1502040-02 Client ID: DUP Sample						
Solids, Total	91.8	90.4	%	2		20

Project Name: 500 SENECA ST. SITE

Lab Number: L1502006

Project Number: 0270-012-001

Report Date: 02/06/15

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1502006-01A	Glass 120ml/4oz unpreserved	A	N/A	2.0	Y	Absent	TS(7),NYTCL-8260(14)
L1502006-01A1	Glass 120ml/4oz unpreserved	A	N/A	2.0	Y	Absent	TS(7),NYTCL-8260(14)
L1502006-01A2	Glass 120ml/4oz unpreserved	A	N/A	2.0	Y	Absent	TS(7),NYTCL-8260(14)
L1502006-02A	Glass 120ml/4oz unpreserved	A	N/A	2.0	Y	Absent	TS(7),NYTCL-8260(14)
L1502006-03A	Glass 120ml/4oz unpreserved	A	N/A	2.0	Y	Absent	TS(7),NYTCL-8260(14)
L1502006-04A	Glass 120ml/4oz unpreserved	A	N/A	2.0	Y	Absent	TS(7),NYTCL-8260(14)
L1502006-05A	Glass 120ml/4oz unpreserved	A	N/A	2.0	Y	Absent	TS(7),NYTCL-8260(14)

Container Comments

L1502006-03A

*Values in parentheses indicate holding time in days

Project Name: 500 SENECA ST. SITE
Project Number: 0270-012-001

Lab Number: L1502006
Report Date: 02/06/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers



Project Name: 500 SENECA ST. SITE
Project Number: 0270-012-001

Lab Number: L1502006
Report Date: 02/06/15

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Project Name: 500 SENECA ST. SITE
Project Number: 0270-012-001

Lab Number: L1502006
Report Date: 02/06/15

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

1 of 1

Date Rec'd
in Lab 1/30/15

ALPHA Job#
1502006

Client Information

Client: Turnkey
Address: 7555 Hankin Turnpike
Babylon NY 11718
Phone: 716-856-0599
Fax: 716-856-0583
Email:

Project Information

Project Name: 500 Seneca St Site
Project Location: 500 Seneca St
Project # 0270-012-001
(Use Project name as Project #) ☐
Project Manager: Nate Munley
ALPHAQuote #:
Turn-Around Time
Standard ☒ Rush (only if pre approved) ☒ Due Date: 2-6-15
Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQUIS (1 File) ☐ EQUIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAT-B

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TL											Sample Specific Comments	e
		Date	Time															
020016	Post Exc Northwall (MS/MSD)	1/30/15	1000	Soil	PLW	X											3	
020017	Post Exc Southwall	↓	1015	↓	↓	X											1	
020018	Post Exc Eastwall	↓	1030	↓	↓	X											1	
020019	Post Exc Westwall	↓	1045	↓	↓	X											1	
020020	Blind Dip	1/30/15	800	Soil	PLW	X											1	
														</				

Preservative Code:

A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code

P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Container Type

Preservative

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
[Signature]	1/30/15 1200	[Signature]	1/30/15 1610
[Signature]	1/30/15 1905	[Signature]	1/30/15 1905
[Signature]	1/30/15 2130	[Signature]	1/30/15 2130
[Signature]	1/30/15 2355	[Signature]	1/30/15 2355

Form No: 01-25 HC (rev. 30-Sept-2013)



ANALYTICAL REPORT

Lab Number:	L1507815
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 225-3314
Project Name:	500 SENECA ST.
Project Number:	0270-012-001
Report Date:	04/26/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1507815-01	MW-3	WATER	BUFFALO, NY	04/16/15 14:49	04/16/15
L1507815-02	MW-4	WATER	BUFFALO, NY	04/16/15 11:46	04/16/15
L1507815-03	BLIND DUP	WATER	BUFFALO, NY	04/16/15 12:00	04/16/15
L1507815-04	MW-5	WATER	BUFFALO, NY	04/16/15 12:51	04/16/15
L1507815-05	MW-6	WATER	BUFFALO, NY	04/16/15 13:48	04/16/15
L1507815-06	MW-7	WATER	BUFFALO, NY	04/16/15 15:09	04/16/15
L1507815-07	TW-3	WATER	BUFFALO, NY	04/16/15 14:45	04/16/15
L1507815-08	TRIP BLANK	WATER	BUFFALO, NY	04/16/15 00:00	04/16/15

Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

Case Narrative (continued)

Report Submission

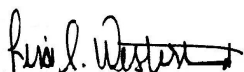
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Dissolved Metals

The WG776908-4 MS recovery, performed on L1507815-05, is outside the acceptance criteria for beryllium (50%). A post digestion spike was performed and was within acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 04/26/15

ORGANICS

VOLATILES

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-01
 Client ID: MW-3
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/21/15 17:53
 Analyst: PD

Date Collected: 04/16/15 14:49
 Date Received: 04/16/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-01

Date Collected: 04/16/15 14:49

Client ID: MW-3

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.1	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	99		70-130

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-02
 Client ID: MW-4
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/21/15 18:28
 Analyst: PD

Date Collected: 04/16/15 11:46
 Date Received: 04/16/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-02

Date Collected: 04/16/15 11:46

Client ID: MW-4

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	98		70-130

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-03
 Client ID: BLIND DUP
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/21/15 19:04
 Analyst: PD

Date Collected: 04/16/15 12:00
 Date Received: 04/16/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-03

Date Collected: 04/16/15 12:00

Client ID: BLIND DUP

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	100		70-130

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-04
 Client ID: MW-5
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/21/15 19:40
 Analyst: PD

Date Collected: 04/16/15 12:51
 Date Received: 04/16/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	1.3		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.28	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.37	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-04

Date Collected: 04/16/15 12:51

Client ID: MW-5

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.6	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	150		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.3	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	100		70-130

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-05
 Client ID: MW-6
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/21/15 20:15
 Analyst: PD

Date Collected: 04/16/15 13:48
 Date Received: 04/16/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-05

Date Collected: 04/16/15 13:48

Client ID: MW-6

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	7.3		ug/l	5.0	1.5	1
Carbon disulfide	1.1	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	98		70-130

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-06
 Client ID: MW-7
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/21/15 20:51
 Analyst: PD

Date Collected: 04/16/15 15:09
 Date Received: 04/16/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-06

Date Collected: 04/16/15 15:09

Client ID: MW-7

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	7.6		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	98		70-130

Project Name: 500 SENECA ST.**Lab Number:** L1507815**Project Number:** 0270-012-001**Report Date:** 04/26/15**SAMPLE RESULTS**

Lab ID: L1507815-07
Client ID: TW-3
Sample Location: BUFFALO, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/21/15 15:20
Analyst: PD

Date Collected: 04/16/15 14:45
Date Received: 04/16/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-07

Date Collected: 04/16/15 14:45

Client ID: TW-3

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.1	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	96		70-130

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-08
 Client ID: TRIP BLANK
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/21/15 14:46
 Analyst: PD

Date Collected: 04/16/15 00:00
 Date Received: 04/16/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-08

Date Collected: 04/16/15 00:00

Client ID: TRIP BLANK

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	96		70-130

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/21/15 10:46
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG777844-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/21/15 10:46
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG777844-3					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 500 SENECA ST.**Lab Number:** L1507815**Project Number:** 0270-012-001**Report Date:** 04/26/15**Method Blank Analysis**
Batch Quality Control**Analytical Method:** 1,8260C**Analytical Date:** 04/21/15 10:46**Analyst:** PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG777844-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	96		70-130

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/21/15 11:24
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG777849-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/21/15 11:24
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG777849-3					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 500 SENECA ST.**Lab Number:** L1507815**Project Number:** 0270-012-001**Report Date:** 04/26/15**Method Blank Analysis**
Batch Quality Control**Analytical Method:** 1,8260C**Analytical Date:** 04/21/15 11:24**Analyst:** PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG777849-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG777844-1 WG777844-2								
Methylene chloride	93		85		70-130	9		20
1,1-Dichloroethane	92		83		70-130	10		20
Chloroform	93		84		70-130	10		20
2-Chloroethylvinyl ether	93		77		70-130	19		20
Carbon tetrachloride	89		81		63-132	9		20
1,2-Dichloropropane	100		89		70-130	12		20
Dibromochloromethane	100		88		63-130	13		20
1,1,2-Trichloroethane	104		92		70-130	12		20
Tetrachloroethene	108		99		70-130	9		20
Chlorobenzene	102		93		75-130	9		20
Trichlorofluoromethane	68		63		62-150	8		20
1,2-Dichloroethane	90		79		70-130	13		20
1,1,1-Trichloroethane	88		80		67-130	10		20
Bromodichloromethane	93		82		67-130	13		20
trans-1,3-Dichloropropene	93		82		70-130	13		20
cis-1,3-Dichloropropene	96		83		70-130	15		20
1,1-Dichloropropene	92		82		70-130	11		20
Bromoform	100		87		54-136	14		20
1,1,2,2-Tetrachloroethane	93		84		67-130	10		20
Benzene	103		92		70-130	11		20
Toluene	102		93		70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG777844-1 WG777844-2								
Ethylbenzene	104		93		70-130	11		20
Chloromethane	57	Q	51	Q	64-130	11		20
Bromomethane	68		55		39-139	21	Q	20
Vinyl chloride	65		59		55-140	10		20
Chloroethane	91		79		55-138	14		20
1,1-Dichloroethene	90		83		61-145	8		20
trans-1,2-Dichloroethene	101		91		70-130	10		20
Trichloroethene	96		88		70-130	9		20
1,2-Dichlorobenzene	98		88		70-130	11		20
1,3-Dichlorobenzene	98		88		70-130	11		20
1,4-Dichlorobenzene	99		88		70-130	12		20
Methyl tert butyl ether	91		80		63-130	13		20
p/m-Xylene	104		94		70-130	10		20
o-Xylene	104		93		70-130	11		20
cis-1,2-Dichloroethene	100		92		70-130	8		20
Dibromomethane	98		86		70-130	13		20
1,2,3-Trichloropropane	94		81		64-130	15		20
Acrylonitrile	96		88		70-130	9		20
Isopropyl Ether	86		76		70-130	12		20
tert-Butyl Alcohol	77		67	Q	70-130	14		20
Styrene	108		98		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG777844-1 WG777844-2								
Dichlorodifluoromethane	50		44		36-147	13		20
Acetone	79		71		58-148	11		20
Carbon disulfide	77		70		51-130	10		20
2-Butanone	86		77		63-138	11		20
Vinyl acetate	85		76		70-130	11		20
4-Methyl-2-pentanone	94		82		59-130	14		20
2-Hexanone	77		69		57-130	11		20
Bromochloromethane	105		96		70-130	9		20
2,2-Dichloropropane	86		75		63-133	14		20
1,2-Dibromoethane	100		89		70-130	12		20
1,3-Dichloropropane	99		91		70-130	8		20
1,1,1,2-Tetrachloroethane	102		92		64-130	10		20
Bromobenzene	100		89		70-130	12		20
n-Butylbenzene	87		77		53-136	12		20
sec-Butylbenzene	92		82		70-130	11		20
tert-Butylbenzene	93		83		70-130	11		20
o-Chlorotoluene	91		82		70-130	10		20
p-Chlorotoluene	95		85		70-130	11		20
1,2-Dibromo-3-chloropropane	71		63		41-144	12		20
Hexachlorobutadiene	84		76		63-130	10		20
Isopropylbenzene	96		85		70-130	12		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG777844-1 WG777844-2								
p-Isopropyltoluene	93		82		70-130	13		20
Naphthalene	100		88		70-130	13		20
n-Propylbenzene	98		87		69-130	12		20
1,2,3-Trichlorobenzene	75		70		70-130	7		20
1,2,4-Trichlorobenzene	85		76		70-130	11		20
1,3,5-Trimethylbenzene	97		86		64-130	12		20
1,2,4-Trimethylbenzene	97		85		70-130	13		20
Methyl Acetate	88		76		70-130	15		20
Ethyl Acetate	86		75		70-130	14		20
Cyclohexane	83		76		70-130	9		20
Ethyl-Tert-Butyl-Ether	85		75		70-130	13		20
Tertiary-Amyl Methyl Ether	83		74		66-130	11		20
1,4-Dioxane	86		82		56-162	5		20
Freon-113	84		77		70-130	9		20
1,4-Diethylbenzene	93		82		70-130	13		20
4-Ethyltoluene	99		87		70-130	13		20
1,2,4,5-Tetramethylbenzene	111		96		70-130	14		20
Ethyl ether	104		96		59-134	8		20
trans-1,4-Dichloro-2-butene	81		69	Q	70-130	16		20
Iodomethane	51	Q	58	Q	70-130	13		20
Methyl cyclohexane	90		82		70-130	9		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG777844-1 WG777844-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	87		86		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	90		90		70-130
Dibromofluoromethane	96		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG777849-1 WG777849-2								
Methylene chloride	91		91		70-130	0		20
1,1-Dichloroethane	100		98		70-130	2		20
Chloroform	94		93		70-130	1		20
Carbon tetrachloride	105		102		63-132	3		20
1,2-Dichloropropane	99		98		70-130	1		20
Dibromochloromethane	93		90		63-130	3		20
1,1,2-Trichloroethane	103		101		70-130	2		20
Tetrachloroethene	85		81		70-130	5		20
Chlorobenzene	93		90		75-130	3		20
Trichlorofluoromethane	88		82		62-150	7		20
1,2-Dichloroethane	101		97		70-130	4		20
1,1,1-Trichloroethane	96		92		67-130	4		20
Bromodichloromethane	95		94		67-130	1		20
trans-1,3-Dichloropropene	108		108		70-130	0		20
cis-1,3-Dichloropropene	97		96		70-130	1		20
1,1-Dichloropropene	93		89		70-130	4		20
Bromoform	98		95		54-136	3		20
1,1,2,2-Tetrachloroethane	105		102		67-130	3		20
Benzene	97		94		70-130	3		20
Toluene	98		94		70-130	4		20
Ethylbenzene	99		95		70-130	4		20

Lab Control Sample Analysis Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG777849-1 WG777849-2								
Chloromethane	52	Q	54	Q	64-130	4		20
Bromomethane	60		51		39-139	16		20
Vinyl chloride	105		92		55-140	13		20
Chloroethane	106		103		55-138	3		20
1,1-Dichloroethene	88		85		61-145	3		20
trans-1,2-Dichloroethene	88		83		70-130	6		20
Trichloroethene	92		89		70-130	3		20
1,2-Dichlorobenzene	93		89		70-130	4		20
1,3-Dichlorobenzene	91		89		70-130	2		20
1,4-Dichlorobenzene	92		88		70-130	4		20
Methyl tert butyl ether	92		91		63-130	1		20
p/m-Xylene	98		94		70-130	4		20
o-Xylene	99		95		70-130	4		20
cis-1,2-Dichloroethene	90		89		70-130	1		20
Dibromomethane	94		93		70-130	1		20
1,2,3-Trichloropropane	103		101		64-130	2		20
Acrylonitrile	110		110		70-130	0		20
Isopropyl Ether	105		103		70-130	2		20
tert-Butyl Alcohol	97		100		70-130	3		20
Styrene	99		97		70-130	2		20
Dichlorodifluoromethane	41		38		36-147	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG777849-1 WG777849-2								
Acetone	109		118		58-148	8		20
Carbon disulfide	82		79		51-130	4		20
2-Butanone	109		108		63-138	1		20
Vinyl acetate	143	Q	143	Q	70-130	0		20
4-Methyl-2-pentanone	104		106		59-130	2		20
2-Hexanone	114		114		57-130	0		20
Acrolein	100		100		40-160	0		20
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	122		119		63-133	2		20
1,2-Dibromoethane	95		92		70-130	3		20
1,3-Dichloropropane	101		99		70-130	2		20
1,1,1,2-Tetrachloroethane	103		100		64-130	3		20
Bromobenzene	92		89		70-130	3		20
n-Butylbenzene	101		95		53-136	6		20
sec-Butylbenzene	96		91		70-130	5		20
tert-Butylbenzene	95		91		70-130	4		20
o-Chlorotoluene	100		96		70-130	4		20
p-Chlorotoluene	100		96		70-130	4		20
1,2-Dibromo-3-chloropropane	98		96		41-144	2		20
Hexachlorobutadiene	78		73		63-130	7		20
Isopropylbenzene	93		90		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG777849-1 WG777849-2								
p-Isopropyltoluene	94		90		70-130	4		20
Naphthalene	88		88		70-130	0		20
n-Propylbenzene	100		96		69-130	4		20
1,2,3-Trichlorobenzene	81		81		70-130	0		20
1,2,4-Trichlorobenzene	85		82		70-130	4		20
1,3,5-Trimethylbenzene	97		93		64-130	4		20
1,2,4-Trimethylbenzene	99		94		70-130	5		20
Methyl Acetate	99		98		70-130	1		20
Ethyl Acetate	110		111		70-130	1		20
Cyclohexane	95		91		70-130	4		20
Ethyl-Tert-Butyl-Ether	102		102		70-130	0		20
Tertiary-Amyl Methyl Ether	93		91		66-130	2		20
1,4-Dioxane	93		92		56-162	1		20
Freon-113	77		72		70-130	7		20
1,4-Diethylbenzene	94		90		70-130	4		20
4-Ethyltoluene	101		96		70-130	5		20
1,2,4,5-Tetramethylbenzene	99		94		70-130	5		20
Ethyl ether	100		97		59-134	3		20
trans-1,4-Dichloro-2-butene	106		104		70-130	2		20
Methyl cyclohexane	84		80		70-130	5		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG777849-1 WG777849-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		108		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	109		108		70-130
Dibromofluoromethane	100		99		70-130

SEMIVOLATILES

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-02
 Client ID: MW-4
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/26/15 04:36
 Analyst: JB

Date Collected: 04/16/15 11:46
 Date Received: 04/16/15
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-02

Date Collected: 04/16/15 11:46

Client ID: MW-4

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.43	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	81		15-120
4-Terphenyl-d14	86		41-149

Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-02
Client ID: MW-4
Sample Location: BUFFALO, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/21/15 18:56
Analyst: KV

Date Collected: 04/16/15 11:46
Date Received: 04/16/15
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	47		15-120
4-Terphenyl-d14	44		41-149

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-04
 Client ID: MW-5
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/23/15 03:09
 Analyst: JB

Date Collected: 04/16/15 12:51
 Date Received: 04/16/15
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-04

Date Collected: 04/16/15 12:51

Client ID: MW-5

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.43	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	79		15-120
4-Terphenyl-d14	81		41-149

Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-04
Client ID: MW-5
Sample Location: BUFFALO, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/21/15 19:27
Analyst: KV

Date Collected: 04/16/15 12:51
Date Received: 04/16/15
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	0.13	J	ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	0.16	J	ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	67		15-120
4-Terphenyl-d14	63		41-149

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-05
 Client ID: MW-6
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/23/15 03:36
 Analyst: JB

Date Collected: 04/16/15 13:48
 Date Received: 04/16/15
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-05

Date Collected: 04/16/15 13:48

Client ID: MW-6

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.43	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	72		15-120
4-Terphenyl-d14	81		41-149

Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-05
Client ID: MW-6
Sample Location: BUFFALO, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/21/15 19:57
Analyst: KV

Date Collected: 04/16/15 13:48
Date Received: 04/16/15
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	0.06	J	ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	0.24		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	0.11	J	ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	70		15-120
4-Terphenyl-d14	67		41-149

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-06
 Client ID: MW-7
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 04/26/15 05:01
 Analyst: JB

Date Collected: 04/16/15 15:09
 Date Received: 04/16/15
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	1.0	J	ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-06

Date Collected: 04/16/15 15:09

Client ID: MW-7

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.43	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	63		15-120
4-Terphenyl-d14	68		41-149

Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-06
Client ID: MW-7
Sample Location: BUFFALO, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/21/15 21:45
Analyst: KV

Date Collected: 04/16/15 15:09
Date Received: 04/16/15
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	0.05	J	ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	0.07	J	ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	37		23-120
2-Fluorobiphenyl	39		15-120
4-Terphenyl-d14	39	Q	41-149

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/21/15 19:29
 Analyst: JB

Extraction Method: EPA 3510C
 Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04-06 Batch: WG777565-1					
Acenaphthene	ND		ug/l	2.0	0.28
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21
Benzidine	ND		ug/l	20	5.2
n-Nitrosodimethylamine	ND		ug/l	2.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.40
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41
2-Chloronaphthalene	ND		ug/l	2.0	0.46
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89
Azobenzene	ND		ug/l	2.0	0.54
Fluoranthene	ND		ug/l	2.0	0.40
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60
Hexachlorobutadiene	ND		ug/l	2.0	0.42
Hexachlorocyclopentadiene	ND		ug/l	20	0.58
Hexachloroethane	ND		ug/l	2.0	0.30
Isophorone	ND		ug/l	5.0	0.79
Naphthalene	ND		ug/l	2.0	0.33
Nitrobenzene	ND		ug/l	2.0	0.40
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93
Butyl benzyl phthalate	ND		ug/l	5.0	1.1

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/21/15 19:29
 Analyst: JB

Extraction Method: EPA 3510C
 Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04-06 Batch: WG777565-1					
Di-n-butylphthalate	ND		ug/l	5.0	0.77
Di-n-octylphthalate	ND		ug/l	5.0	1.2
Diethyl phthalate	ND		ug/l	5.0	0.39
Dimethyl phthalate	ND		ug/l	5.0	0.33
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.66
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30
Chrysene	ND		ug/l	2.0	0.30
Acenaphthylene	ND		ug/l	2.0	0.37
Anthracene	ND		ug/l	2.0	0.20
Benzo(ghi)perylene	ND		ug/l	2.0	0.57
Fluorene	ND		ug/l	2.0	0.32
Phenanthrene	ND		ug/l	2.0	0.23
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	0.43
Pyrene	ND		ug/l	2.0	0.52
Biphenyl	ND		ug/l	2.0	0.24
Aniline	ND		ug/l	2.0	0.55
4-Chloroaniline	ND		ug/l	5.0	0.84
2-Nitroaniline	ND		ug/l	5.0	0.96
3-Nitroaniline	ND		ug/l	5.0	0.67
4-Nitroaniline	ND		ug/l	5.0	0.83
Dibenzofuran	ND		ug/l	2.0	0.22
2-Methylnaphthalene	ND		ug/l	2.0	0.36
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36
Acetophenone	ND		ug/l	5.0	0.43
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/21/15 19:29
 Analyst: JB

Extraction Method: EPA 3510C
 Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04-06 Batch: WG777565-1					
2-Chlorophenol	ND		ug/l	2.0	0.58
2,4-Dichlorophenol	ND		ug/l	5.0	0.56
2,4-Dimethylphenol	ND		ug/l	5.0	0.58
2-Nitrophenol	ND		ug/l	10	1.0
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4
Pentachlorophenol	ND		ug/l	10	3.2
Phenol	ND		ug/l	5.0	0.27
2-Methylphenol	ND		ug/l	5.0	0.70
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.68
Carbazole	ND		ug/l	2.0	0.37
Pyridine	ND		ug/l	5.0	0.31
Benzaldehyde	ND		ug/l	5.0	0.99
Caprolactam	ND		ug/l	10	0.39
Atrazine	ND		ug/l	10	0.79
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.59

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/21/15 19:29
 Analyst: JB

Extraction Method: EPA 3510C
 Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04-06 Batch: WG777565-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	68		41-149

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 04/21/15 17:24
 Analyst: KV

Extraction Method: EPA 3510C
 Extraction Date: 04/21/15 01:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02,04-06 Batch: WG777748-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	66		15-120
4-Terphenyl-d14	69		41-149



Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-06 Batch: WG777565-2 WG777565-3								
Acenaphthene	85		77		37-111	10		30
1,2,4-Trichlorobenzene	74		64		39-98	14		30
Benzidine	74	Q	57		10-66	26		30
n-Nitrosodimethylamine	57		47		22-100	19		30
Hexachlorobenzene	107		94		40-140	13		30
Bis(2-chloroethyl)ether	94		83		40-140	12		30
2-Chloronaphthalene	85		75		40-140	13		30
1,2-Dichlorobenzene	75		62		40-140	19		30
1,3-Dichlorobenzene	69		60		40-140	14		30
1,4-Dichlorobenzene	72		61		36-97	17		30
3,3'-Dichlorobenzidine	116		106		40-140	9		30
2,4-Dinitrotoluene	115	Q	105	Q	24-96	9		30
2,6-Dinitrotoluene	119		109		40-140	9		30
Azobenzene	91		80		40-140	13		30
Fluoranthene	108		96		40-140	12		30
4-Chlorophenyl phenyl ether	98		87		40-140	12		30
4-Bromophenyl phenyl ether	106		97		40-140	9		30
Bis(2-chloroisopropyl)ether	99		86		40-140	14		30
Bis(2-chloroethoxy)methane	99		92		40-140	7		30
Hexachlorobutadiene	73		64		40-140	13		30
Hexachlorocyclopentadiene	72		68		40-140	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-06 Batch: WG777565-2 WG777565-3								
Hexachloroethane	67		58		40-140	14		30
Isophorone	103		99		40-140	4		30
Naphthalene	79		69		40-140	14		30
Nitrobenzene	88		79		40-140	11		30
NitrosoDiPhenylAmine(NDPA)/DPA	105		93		40-140	12		30
n-Nitrosodi-n-propylamine	107		91		29-132	16		30
Bis(2-Ethylhexyl)phthalate	112		100		40-140	11		30
Butyl benzyl phthalate	110		99		40-140	11		30
Di-n-butylphthalate	106		94		40-140	12		30
Di-n-octylphthalate	122		109		40-140	11		30
Diethyl phthalate	108		97		40-140	11		30
Dimethyl phthalate	108		97		40-140	11		30
Benzo(a)anthracene	107		96		40-140	11		30
Benzo(a)pyrene	103		93		40-140	10		30
Benzo(b)fluoranthene	103		92		40-140	11		30
Benzo(k)fluoranthene	100		89		40-140	12		30
Chrysene	102		92		40-140	10		30
Acenaphthylene	94		84		45-123	11		30
Anthracene	104		93		40-140	11		30
Benzo(ghi)perylene	108		97		40-140	11		30
Fluorene	98		89		40-140	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-06 Batch: WG777565-2 WG777565-3								
Phenanthrene	98		89		40-140	10		30
Dibenzo(a,h)anthracene	108		97		40-140	11		30
Indeno(1,2,3-cd)Pyrene	114		102		40-140	11		30
Pyrene	104		93		26-127	11		30
Biphenyl	83		74		54-104	11		30
Aniline	66		56		40-140	16		30
4-Chloroaniline	96		87		40-140	10		30
2-Nitroaniline	118		106		52-143	11		30
3-Nitroaniline	83		81		25-145	2		30
4-Nitroaniline	106		95		51-143	11		30
Dibenzofuran	93		83		40-140	11		30
2-Methylnaphthalene	76		69		40-140	10		30
1,2,4,5-Tetrachlorobenzene	76		68		2-134	11		30
Acetophenone	109		94		39-129	15		30
2,4,6-Trichlorophenol	115		103		30-130	11		30
P-Chloro-M-Cresol	102	Q	92		23-97	10		30
2-Chlorophenol	84		74		27-123	13		30
2,4-Dichlorophenol	92		91		30-130	1		30
2,4-Dimethylphenol	101		93		30-130	8		30
2-Nitrophenol	98		97		30-130	1		30
4-Nitrophenol	52		41		10-80	24		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-06 Batch: WG777565-2 WG777565-3								
2,4-Dinitrophenol	113		100		20-130	12		30
4,6-Dinitro-o-cresol	119		103		20-164	14		30
Pentachlorophenol	109	Q	95		9-103	14		30
Phenol	35		33		12-110	6		30
2-Methylphenol	79		66		30-130	18		30
3-Methylphenol/4-Methylphenol	71		60		30-130	17		30
2,4,5-Trichlorophenol	108		97		30-130	11		30
Benzoic Acid	22		26		10-110	17		30
Benzyl Alcohol	79		69		15-110	14		30
Carbazole	103		91		55-144	12		30
Pyridine	43		30		10-66	36	Q	30
Benzaldehyde	100		89		40-140	12		30
Caprolactam	31		28		10-130	10		30
Atrazine	124		111		40-140	11		30
2,3,4,6-Tetrachlorophenol	108		97		54-145	11		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-06 Batch: WG777565-2 WG777565-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	53		45		21-120
Phenol-d6	36		30		10-120
Nitrobenzene-d5	103		87		23-120
2-Fluorobiphenyl	104		92		15-120
2,4,6-Tribromophenol	116		99		10-120
4-Terphenyl-d14	104		91		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02,04-06 Batch: WG777748-2 WG777748-3								
Acenaphthene	50		64		37-111	25		40
2-Chloronaphthalene	41		53		40-140	26		40
Fluoranthene	52		63		40-140	19		40
Hexachlorobutadiene	34	Q	43		40-140	23		40
Naphthalene	42		52		40-140	21		40
Benzo(a)anthracene	52		67		40-140	25		40
Benzo(a)pyrene	53		68		40-140	25		40
Benzo(b)fluoranthene	52		67		40-140	25		40
Benzo(k)fluoranthene	51		64		40-140	23		40
Chrysene	50		64		40-140	25		40
Acenaphthylene	49		65		40-140	28		40
Anthracene	51		66		40-140	26		40
Benzo(ghi)perylene	48		62		40-140	25		40
Fluorene	49		63		40-140	25		40
Phenanthrene	47		61		40-140	26		40
Dibenzo(a,h)anthracene	51		67		40-140	27		40
Indeno(1,2,3-cd)Pyrene	50		63		40-140	23		40
Pyrene	51		64		26-127	23		40
2-Methylnaphthalene	44		55		40-140	22		40
Hexachlorobenzene	49		62		40-140	23		40
Hexachloroethane	37	Q	44		40-140	17		40

Lab Control Sample Analysis Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02,04-06 Batch: WG777748-2 WG777748-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	53		67		23-120
2-Fluorobiphenyl	51		68		15-120
4-Terphenyl-d14	53		71		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG777565-4 WG777565-5 QC Sample: L1507979-03 Client ID: MS Sample												
1,2,4-Trichlorobenzene	ND	40	26	65		21	53		39-98	21		30
Bis(2-chloroethyl)ether	ND	40	35	88		28	70		40-140	22		30
1,2-Dichlorobenzene	ND	40	26	65		21	53		40-140	21		30
1,3-Dichlorobenzene	ND	40	25	63		20	50		40-140	22		30
1,4-Dichlorobenzene	ND	40	25	63		20	50		36-97	22		30
3,3'-Dichlorobenzidine	ND	40	22	55		19	48		40-140	15		30
2,4-Dinitrotoluene	ND	40	37	93		30	75		24-96	21		30
2,6-Dinitrotoluene	ND	40	35	88		27	68		40-140	26		30
4-Chlorophenyl phenyl ether	ND	40	32	80		26	65		40-140	21		30
4-Bromophenyl phenyl ether	ND	40	32	80		26	65		40-140	21		30
Bis(2-chloroisopropyl)ether	ND	40	41	100		33	83		40-140	22		30
Bis(2-chloroethoxy)methane	ND	40	35	88		30	75		40-140	15		30
Hexachlorocyclopentadiene	ND	40	18J	45		15.J	38	Q	40-140	18		30
Isophorone	ND	40	35	88		30	75		40-140	15		30
Nitrobenzene	ND	40	37	93		30	75		40-140	21		30
NitrosoDiPhenylAmine(NDPA)/DPA	ND	40	34	85		27	68		40-140	23		30
n-Nitrosodi-n-propylamine	ND	40	36	90		31	78		29-132	15		30
Bis(2-Ethylhexyl)phthalate	ND	40	40	100		33	83		40-140	19		30
Butyl benzyl phthalate	ND	40	40	100		32	80		40-140	22		30
Di-n-butylphthalate	ND	40	38	95		31	78		40-140	20		30
Di-n-octylphthalate	ND	40	41	100		34	85		40-140	19		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG777565-4 WG777565-5 QC Sample: L1507979-03 Client ID: MS Sample												
Diethyl phthalate	ND	40	34	85		28	70		40-140	19		30
Dimethyl phthalate	ND	40	34	85		28	70		40-140	19		30
Biphenyl	ND	40	32	80		27	68		54-104	17		30
4-Chloroaniline	ND	40	33	83		23	58		40-140	36	Q	30
2-Nitroaniline	ND	40	36	90		29	73		52-143	22		30
3-Nitroaniline	ND	40	27	68		22	55		25-145	20		30
4-Nitroaniline	ND	40	32	80		26	65		51-143	21		30
Dibenzofuran	ND	40	33	83		28	70		40-140	16		30
1,2,4,5-Tetrachlorobenzene	ND	40	29	73		24	60		2-134	19		30
Acetophenone	ND	40	34	85		28	70		39-129	19		30
2,4,6-Trichlorophenol	ND	40	32	80		26	65		30-130	21		30
P-Chloro-M-Cresol	ND	40	32	80		26	65		23-97	21		30
2-Chlorophenol	ND	40	28	70		22	55		27-123	24		30
2,4-Dichlorophenol	ND	40	31	78		25	63		30-130	21		30
2,4-Dimethylphenol	ND	40	30	75		25	63		30-130	18		30
2-Nitrophenol	ND	40	32	80		26	65		30-130	21		30
4-Nitrophenol	ND	40	21	53		16	40		10-80	27		30
2,4-Dinitrophenol	ND	40	35	88		29	73		20-130	19		30
4,6-Dinitro-o-cresol	ND	40	35	88		28	70		20-164	22		30
Phenol	ND	40	13	33		10	25		12-110	26		30
2-Methylphenol	ND	40	24	60		20	50		30-130	18		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG777565-4 WG777565-5 QC Sample: L1507979-03 Client ID: MS Sample												
3-Methylphenol/4-Methylphenol	ND	40	22	55		18	45		30-130	20		30
2,4,5-Trichlorophenol	ND	40	32	80		25	63		30-130	25		30
Benzoic Acid	ND	40	16J	40		12.J	30		10-110	29		30
Benzyl Alcohol	ND	40	25	63		21	53		15-110	17		30
Carbazole	ND	40	36	90		29	73		55-144	22		30
Benzaldehyde	ND	40	32	80		26	65		40-140	21		30
Caprolactam	ND	40	10	25		7.3J	18		10-130	31	Q	30
Atrazine	ND	40	36	90		30	75		40-140	18		30
2,3,4,6-Tetrachlorophenol	ND	40	33	83		27	68		54-145	20		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	78		63		10-120
2-Fluorobiphenyl	74		61		15-120
2-Fluorophenol	41		33		21-120
4-Terphenyl-d14	78		63		41-149
Nitrobenzene-d5	90		73		23-120
Phenol-d6	28		23		10-120

PESTICIDES

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-02
 Client ID: MW-4
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 04/22/15 07:31
 Analyst: JW

Date Collected: 04/16/15 11:46
 Date Received: 04/16/15
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/18/15 08:36
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/21/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	0.039	J	ug/l	0.040	0.004	1	B
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-04
 Client ID: MW-5
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 04/22/15 07:44
 Analyst: JW

Date Collected: 04/16/15 12:51
 Date Received: 04/16/15
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/18/15 08:36
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/21/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	0.039	J	ug/l	0.040	0.004	1	B
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-05
 Client ID: MW-6
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 04/22/15 16:28
 Analyst: JW

Date Collected: 04/16/15 13:48
 Date Received: 04/16/15
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/18/15 08:36
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/21/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-06
 Client ID: MW-7
 Sample Location: BUFFALO, NY
 Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 04/22/15 16:44
 Analyst: JW

Date Collected: 04/16/15 15:09
 Date Received: 04/16/15
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 04/18/15 08:36
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/21/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.008	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	34		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 04/22/15 05:20
 Analyst: JW

Extraction Method: EPA 3510C
 Extraction Date: 04/18/15 08:36
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/21/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,04-06 Batch: WG777085-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin aldehyde	ND		ug/l	0.040	0.008	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 04/22/15 05:20
 Analyst: JW

Extraction Method: EPA 3510C
 Extraction Date: 04/18/15 08:36
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/21/15

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,04-06 Batch: WG777085-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	87		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,04-06 Batch: WG777085-2 WG777085-3									
Delta-BHC	93		90		30-150	4		20	A
Lindane	105		103		30-150	2		20	A
Alpha-BHC	110		107		30-150	3		20	A
Beta-BHC	101		98		30-150	3		20	A
Heptachlor	116		117		30-150	1		20	A
Aldrin	112		112		30-150	0		20	A
Heptachlor epoxide	109		108		30-150	1		20	A
Endrin	126		124		30-150	2		20	A
Endrin aldehyde	91		91		30-150	0		20	A
Endrin ketone	99		98		30-150	1		20	A
Dieldrin	123		121		30-150	2		20	A
4,4'-DDE	130		128		30-150	2		20	A
4,4'-DDD	133		130		30-150	2		20	A
4,4'-DDT	123		119		30-150	3		20	A
Endosulfan I	110		110		30-150	0		20	A
Endosulfan II	116		114		30-150	2		20	A
Endosulfan sulfate	94		93		30-150	0		20	A
Methoxychlor	129		130		30-150	1		20	A
cis-Chlordane	111		109		30-150	2		20	A
trans-Chlordane	120		119		30-150	1		20	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,04-06 Batch: WG777085-2 WG777085-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		81		30-150	A
Decachlorobiphenyl	71		53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		72		30-150	B
Decachlorobiphenyl	79		63		30-150	B

METALS

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-02

Date Collected: 04/16/15 11:46

Client ID: MW-4

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	ND		mg/l	0.00050	0.00012	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL
Barium, Dissolved	0.1771		mg/l	0.00050	0.00006	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00015	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL
Chromium, Dissolved	0.00109		mg/l	0.00100	0.00025	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL
Copper, Dissolved	0.00040	J	mg/l	0.00100	0.00026	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL
Lead, Dissolved	ND		mg/l	0.00100	0.00012	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL
Manganese, Dissolved	0.03640		mg/l	0.00050	0.00030	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/17/15 14:41	04/17/15 18:01	EPA 7470A	1,7470A	AB
Nickel, Dissolved	0.00074		mg/l	0.00050	0.00008	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	0.00100	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00007	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL
Zinc, Dissolved	0.01344		mg/l	0.01000	0.00256	1	04/17/15 14:18	04/18/15 14:46	NA	1,6020A	KL



Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-04

Date Collected: 04/16/15 12:51

Client ID: MW-5

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.00029	J	mg/l	0.00050	0.00012	1	04/17/15 14:18	04/18/15 14:50	NA	1,6020A	KL
Barium, Dissolved	0.1626		mg/l	0.00050	0.00006	1	04/17/15 14:18	04/18/15 14:50	NA	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00015	1	04/17/15 14:18	04/18/15 14:50	NA	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/17/15 14:18	04/18/15 14:50	NA	1,6020A	KL
Chromium, Dissolved	0.00080	J	mg/l	0.00100	0.00025	1	04/17/15 14:18	04/18/15 14:50	NA	1,6020A	KL
Copper, Dissolved	0.00030	J	mg/l	0.00100	0.00026	1	04/17/15 14:18	04/18/15 14:50	NA	1,6020A	KL
Lead, Dissolved	ND		mg/l	0.00100	0.00012	1	04/17/15 14:18	04/18/15 14:50	NA	1,6020A	KL
Manganese, Dissolved	2.660		mg/l	0.00500	0.00302	10	04/17/15 14:18	04/18/15 15:31	NA	1,6020A	KL
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/17/15 14:41	04/17/15 18:12	EPA 7470A	1,7470A	AB
Nickel, Dissolved	0.00800		mg/l	0.00050	0.00008	1	04/17/15 14:18	04/18/15 14:50	NA	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	0.00100	1	04/17/15 14:18	04/18/15 14:50	NA	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00007	1	04/17/15 14:18	04/18/15 14:50	NA	1,6020A	KL
Zinc, Dissolved	0.01213		mg/l	0.01000	0.00256	1	04/17/15 14:18	04/18/15 14:50	NA	1,6020A	KL



Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-05

Date Collected: 04/16/15 13:48

Client ID: MW-6

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.00044	J	mg/l	0.00050	0.00012	1	04/17/15 14:18	04/18/15 14:05	NA	1,6020A	KL
Barium, Dissolved	0.1527		mg/l	0.00050	0.00006	1	04/17/15 14:18	04/18/15 14:05	NA	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00015	1	04/17/15 14:18	04/18/15 14:05	NA	1,6020A	KL
Cadmium, Dissolved	0.00006	J	mg/l	0.00020	0.00005	1	04/17/15 14:18	04/18/15 14:05	NA	1,6020A	KL
Chromium, Dissolved	0.00110		mg/l	0.00100	0.00025	1	04/17/15 14:18	04/18/15 14:05	NA	1,6020A	KL
Copper, Dissolved	0.00029	J	mg/l	0.00100	0.00026	1	04/17/15 14:18	04/18/15 14:05	NA	1,6020A	KL
Lead, Dissolved	ND		mg/l	0.00100	0.00012	1	04/17/15 14:18	04/18/15 14:05	NA	1,6020A	KL
Manganese, Dissolved	0.5130		mg/l	0.00250	0.00151	5	04/17/15 14:18	04/18/15 14:01	NA	1,6020A	KL
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/17/15 14:41	04/17/15 18:14	EPA 7470A	1,7470A	AB
Nickel, Dissolved	0.01153		mg/l	0.00050	0.00008	1	04/17/15 14:18	04/18/15 14:05	NA	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	0.00100	1	04/17/15 14:18	04/18/15 14:05	NA	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00007	1	04/17/15 14:18	04/18/15 14:05	NA	1,6020A	KL
Zinc, Dissolved	0.01709		mg/l	0.01000	0.00256	1	04/17/15 14:18	04/18/15 14:05	NA	1,6020A	KL



Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-06

Date Collected: 04/16/15 15:09

Client ID: MW-7

Date Received: 04/16/15

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.00018	J	mg/l	0.00050	0.00012	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL
Barium, Dissolved	0.3564		mg/l	0.00050	0.00006	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00015	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL
Chromium, Dissolved	0.00104		mg/l	0.00100	0.00025	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL
Copper, Dissolved	0.00055	J	mg/l	0.00100	0.00026	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL
Lead, Dissolved	ND		mg/l	0.00100	0.00012	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL
Manganese, Dissolved	0.1621		mg/l	0.00050	0.00030	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/17/15 14:41	04/17/15 18:15	EPA 7470A	1,7470A	AB
Nickel, Dissolved	0.00601		mg/l	0.00050	0.00008	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	0.00100	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00007	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL
Zinc, Dissolved	0.01750		mg/l	0.01000	0.00256	1	04/17/15 14:18	04/18/15 14:54	NA	1,6020A	KL



Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 02,04-06 Batch: WG776902-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	04/17/15 14:41	04/17/15 17:57	1,7470A	AB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 02,04-06 Batch: WG776908-1										
Arsenic, Dissolved	ND		mg/l	0.00050	0.00012	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL
Barium, Dissolved	ND		mg/l	0.00050	0.00006	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00015	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL
Chromium, Dissolved	0.00069	J	mg/l	0.00100	0.00025	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL
Copper, Dissolved	ND		mg/l	0.00100	0.00026	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL
Lead, Dissolved	ND		mg/l	0.00100	0.00012	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL
Manganese, Dissolved	ND		mg/l	0.00050	0.00030	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL
Nickel, Dissolved	0.00030	J	mg/l	0.00050	0.00008	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	0.00100	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00007	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL
Zinc, Dissolved	0.00284	J	mg/l	0.01000	0.00256	1	04/17/15 14:18	04/18/15 13:43	1,6020A	KL

Prep Information

Digestion Method: NA

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 02,04-06 Batch: WG776902-2								
Mercury, Dissolved	107		-		70-130	-		
Dissolved Metals - Westborough Lab Associated sample(s): 02,04-06 Batch: WG776908-2								
Arsenic, Dissolved	80		-		80-120	-		
Barium, Dissolved	84		-		80-120	-		
Beryllium, Dissolved	84		-		80-120	-		
Cadmium, Dissolved	93		-		80-120	-		
Chromium, Dissolved	83		-		80-120	-		
Copper, Dissolved	85		-		80-120	-		
Lead, Dissolved	116		-		80-120	-		
Manganese, Dissolved	82		-		80-120	-		
Nickel, Dissolved	86		-		80-120	-		
Selenium, Dissolved	102		-		80-120	-		
Silver, Dissolved	83		-		80-120	-		
Zinc, Dissolved	91		-		80-120	-		

Matrix Spike Analysis **Batch Quality Control**

Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG776902-4 QC Sample: L1507815-02 Client ID: MW-4												
Mercury, Dissolved	ND	0.005	0.00468	94		-	-		75-125	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG776908-4 QC Sample: L1507815-05 Client ID: MW-6												
Arsenic, Dissolved	0.00044J	0.12	0.09718	81		-	-		75-125	-		20
Barium, Dissolved	0.1527	2	1.908	88		-	-		75-125	-		20
Beryllium, Dissolved	ND	0.05	0.02521	50	Q	-	-		75-125	-		20
Cadmium, Dissolved	0.00006J	0.051	0.04906	96		-	-		75-125	-		20
Chromium, Dissolved	0.00110	0.2	0.1674	83		-	-		75-125	-		20
Copper, Dissolved	0.00029J	0.25	0.2166	87		-	-		75-125	-		20
Lead, Dissolved	ND	0.51	0.4058	80		-	-		75-125	-		20
Manganese, Dissolved	0.5130	0.5	0.9020	78		-	-		75-125	-		20
Nickel, Dissolved	0.01153	0.5	0.4330	84		-	-		75-125	-		20
Selenium, Dissolved	ND	0.12	0.0953	79		-	-		75-125	-		20
Silver, Dissolved	ND	0.05	0.04101	82		-	-		75-125	-		20
Zinc, Dissolved	0.01709	0.5	0.4639	89		-	-		75-125	-		20

Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1507815
Report Date: 04/26/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG776902-3 QC Sample: L1507815-02 Client ID: MW-4						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG776908-3 QC Sample: L1507815-05 Client ID: MW-6						
Arsenic, Dissolved	0.00044J	0.00040J	mg/l	NC		20
Barium, Dissolved	0.1527	0.1496	mg/l	2		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	0.00006J	0.00006J	mg/l	NC		20
Chromium, Dissolved	0.00110	0.00104	mg/l	6		20
Copper, Dissolved	0.00029J	0.00029J	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Nickel, Dissolved	0.01153	0.01120	mg/l	3		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Zinc, Dissolved	0.01709	0.01626	mg/l	5		20
Dissolved Metals - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG776908-3 QC Sample: L1507815-05 Client ID: MW-6						
Manganese, Dissolved	0.5130	0.5030	mg/l	2		20

INORGANICS & MISCELLANEOUS

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-02

Client ID: MW-4

Sample Location: BUFFALO, NY

Matrix: Water

Date Collected: 04/16/15 11:46

Date Received: 04/16/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	04/18/15 14:30	04/20/15 12:35	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/17/15 02:30	04/17/15 03:01	1,7196A	LH



Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-04

Client ID: MW-5

Sample Location: BUFFALO, NY

Matrix: Water

Date Collected: 04/16/15 12:51

Date Received: 04/16/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	04/18/15 14:30	04/20/15 12:37	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/17/15 02:30	04/17/15 03:02	1,7196A	LH



Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-05

Client ID: MW-6

Sample Location: BUFFALO, NY

Matrix: Water

Date Collected: 04/16/15 13:48

Date Received: 04/16/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	04/18/15 14:30	04/20/15 12:38	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/17/15 02:30	04/17/15 03:02	1,7196A	LH



Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

SAMPLE RESULTS

Lab ID: L1507815-06

Client ID: MW-7

Sample Location: BUFFALO, NY

Matrix: Water

Date Collected: 04/16/15 15:09

Date Received: 04/16/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	04/18/15 14:30	04/20/15 12:39	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/17/15 02:30	04/17/15 03:03	1,7196A	LH



Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02,04-06 Batch: WG776704-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/17/15 02:30	04/17/15 03:00	1,7196A	LH
General Chemistry - Westborough Lab for sample(s): 02,04-06 Batch: WG777181-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	04/18/15 14:30	04/20/15 12:28	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04-06 Batch: WG776704-2								
Chromium, Hexavalent	97		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02,04-06 Batch: WG777181-2 WG777181-3								
Cyanide, Total	103		99		80-120	4		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 500 SENECA ST.

Lab Number: L1507815

Project Number: 0270-012-001

Report Date: 04/26/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG776704-4 QC Sample: L1507815-02 Client ID: MW-4												
Chromium, Hexavalent	ND	0.1	0.095	95		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG777181-4 WG777181-5 QC Sample: L1507815-06 Client ID: MW-7												
Cyanide, Total	0.002J	0.2	0.204	102		0.209	104		80-120	2		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04-06 QC Batch ID: WG776704-3 QC Sample: L1507815-02 Client ID: MW-4						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1507815-01A	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-01B	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-01C	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-02A	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-02B	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-02C	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-02D	Plastic 500ml unpreserved	A	7	4.0	Y	Absent	HEXCR-7196(1)
L1507815-02E	Plastic 250ml NaOH preserved spl	A	>12	4.0	Y	Absent	TCN-9010(14)
L1507815-02F	Amber 1000ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1507815-02G	Amber 1000ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1507815-02H	Amber 500ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8081(7)
L1507815-02I	Amber 500ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8081(7)
L1507815-02X	Plastic 120ml HNO3 preserved spl	A	<2	4.0	Y	Absent	CU-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CR-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),CD-6020S(180),HG-S(28)
L1507815-03A	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-03B	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-03C	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-04A	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-04B	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-04C	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-04D	Plastic 500ml unpreserved	A	7	4.0	Y	Absent	HEXCR-7196(1)
L1507815-04E	Plastic 250ml NaOH preserved spl	A	>12	4.0	Y	Absent	TCN-9010(14)
L1507815-04F	Amber 1000ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)

*Values in parentheses indicate holding time in days



Project Name: 500 SENECA ST.

Project Number: 0270-012-001

Lab Number: L1507815

Report Date: 04/26/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1507815-04G	Amber 1000ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1507815-04H	Amber 500ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8081(7)
L1507815-04I	Amber 500ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8081(7)
L1507815-04X	Plastic 120ml HNO3 preserved spl	A	<2	4.0	Y	Absent	CU-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CR-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),CD-6020S(180),HG-S(28)
L1507815-05A	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-05B	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-05C	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-05D	Plastic 500ml unpreserved	A	7	4.0	Y	Absent	HEXCR-7196(1)
L1507815-05E	Plastic 250ml NaOH preserved spl	A	>12	4.0	Y	Absent	TCN-9010(14)
L1507815-05F	Amber 1000ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1507815-05G	Amber 1000ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1507815-05H	Amber 500ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8081(7)
L1507815-05I	Amber 500ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8081(7)
L1507815-05X	Plastic 120ml HNO3 preserved spl	A	<2	4.0	Y	Absent	CU-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CR-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),CD-6020S(180),HG-S(28)
L1507815-06A	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-06B	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-06C	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-06D	Plastic 500ml unpreserved	A	7	4.0	Y	Absent	HEXCR-7196(1)
L1507815-06E	Plastic 250ml NaOH preserved spl	A	>12	4.0	Y	Absent	TCN-9010(14)
L1507815-06F	Amber 1000ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1507815-06G	Amber 1000ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1507815-06H	Amber 500ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8081(7)
L1507815-06I	Amber 500ml unpreserved	A	7	4.0	Y	Absent	NYTCL-8081(7)
L1507815-06X	Plastic 120ml HNO3 preserved spl	A	<2	4.0	Y	Absent	CU-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CR-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),CD-6020S(180),HG-S(28)

*Values in parentheses indicate holding time in days



Project Name: 500 SENECA ST.**Project Number:** 0270-012-001**Lab Number:** L1507815**Report Date:** 04/26/15**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1507815-07A	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-07B	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-07C	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)
L1507815-08A	Vial HCl preserved	A	N/A	4.0	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers



Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Project Name: 500 SENECA ST.
Project Number: 0270-012-001

Lab Number: L1507815
Report Date: 04/26/15

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F, EPA 353.2:** Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



NEW YORK CHAIN OF CUSTODY

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8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

1 of 1

Date Rec'd
In Lab

17-Apr-15

ALPHA Job #

61507815

Project Information

Project Name: 500 Severn St

Project Location: Buffalo NY

Project # 0270-012-001

(Use Project name as Project #) ☒

Project Manager: Nate Munley

ALPHAQuote #:

Turn-Around Time

Standard ☒

Due Date: 23-Apr-15

Rush (only if pre approved) ☐

of Days:

Deliverables

☐ ASP-A

☐ ASP-B

☐ EQULS (1 File)

☐ EQULS (4 File)

☐ Other

Billing Information

☐ Same as Client Info

PO #

Client Information

Client: Benchmark Eng

Address: 2558 Hamburg Turnpike

Buff 300 Leckum NY

Phone: (716) 856-0599

Fax: (716) 856-0635

Email: TB@benchmarkinc.com

Regulatory Requirement

☐ NY TOGS

☐ NY Part 375

☐ AWQ Standards

☐ NY CP-51

☐ NY Restricted Use

☐ Other

☐ NY Unrestricted Use

☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:

☐ NJ

☐ NY

☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Filter and Preserve Metals In Lab CAT B

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											Total Bottles
		Date	Time			TAL	8260 VOC	TAL 8270	BN ONYL	P-7375 List	Dissolved Metals	PEST				
	MW-3	4/16/15	1449	TAB	GW	3										3
	MW-4		1441			3	2	1	2							8
	Blind Dup		1200			3										3
	MW-5		1251			3	2	1	2							8
	MW-6		1348			3	2	1	2							8
	MW-7		1509			3	2	1	2							8
	TW-2		1445			3										3
	Trip Blank					1										1

Preservative Code:

A = None

B = HCl

C = HNO₃

D = H₂SO₄

E = NaOH

F = MeOH

G = NaHSO₄

H = Na₂S₂O₃

K/E = Zn Ac/NaOH

O = Other

Container Code

P = Plastic

A = Amber Glass

V = Vial

G = Glass

B = Bacteria Cup

C = Cube

O = Other

E = Encore

D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Container Type

V A A A

Preservative

B A P A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:

Date/Time

Received By:

Date/Time

[Signature]
4/16/15 1605
4/16/15 2210
4/17/15 0055

[Signature]
4/16/15 1605
4/16/15 2210
4/17/15 0055

[Signature]
4/16/15 1605
4/16/15 2210
4/17/15 0055

[Signature]
4/16/15 1605
4/16/15 2210
4/17/15 0055

APPENDIX F

DATA USABILITY SUMMARY REPORTS (DUSRs)

Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

harry@frontiernet.net

October 25, 2014

Nathan Munley

Benchmark Environmental Engineering & Science, Inc.

2558 Hamburg Turnpike, Suite 300

Buffalo, NY 14218

RE: Data Usability Summary Report (DUSR)

Validation of the 500 Seneca Street Site Analytical Laboratory Data

TAL-Buffalo SDG Nos. 480-47822-1, 480-55442-1, 480-55676-1, 480-55718-1, 480-57215-1,
and 480-57543-1

Dear Mr. Munley:

Review has been completed for the data packages generated by TestAmerica Laboratories, Inc. that pertain to samples collected between 10/09/13 and 04/08/1 at the 500 Seneca Street, Buffalo, NY site. Soil and aqueous samples were analyzed for various combinations of the Target Compound List (TCL) and/or CP-51 volatile analytes, TCL semivolatile or Base/Neutral semivolatile analytes, Aroclor PCBs, TCL pesticides, TCL herbicides, Target Analyte List (TAL) metals, RCRA metals, and total cyanide. One aqueous sample was also processed for dissolved metals. Seven 6 L canister air samples and a field duplicate were processed for volatile analytes. Matrix spikes, equipment blanks, and trip blanks were also processed. Volatile and semivolatile Tentatively Identified Compounds (TICs) were requested and reported for some of the soil and aqueous samples. Analytical methodologies are those of the USEPA SW846 and USEPA method TO-15.

The data package submitted by the laboratory contains full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, in accordance with the project QAPP, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Equipment/Trip/Method Blanks
- * Matrix Spikes/Laboratory Duplicates
- * Blind Field Duplicates
- * Laboratory Control Sample (LCS)
- * Instrumental Tunes
- * Calibration Standards

- * ICP Serial Dilution Evaluations
- * ICP Interference Check Samples
- * Method Compliance
- * Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, sample results are usable either as reported or with minor qualification or edit. No data are rejected. Data completeness, representativeness, and the analytical method comparability are acceptable. Accuracy and precision are good, with the exception of a potential non-homogeneity in the surface soil matrix. However, many of the pesticide reporting limits are elevated due to the dilutions performed at analysis.

Copies of the client sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also attached are client excel files, with recommended qualifiers/edits applied in red.

Chain-of-Custody/Sample Receipt

Several of the labels on the air canisters do not show the end date and time of collection. Two canister custody entries do not have correct flow controller IDs.

The initial relinquish entries on the custodies pertaining to samples reported in SDGs 480-47822-1 and 480-57215-1 do include the dates and/or times.

Blind Field Duplicates

Blind duplicate evaluations were performed on MW-1, SSV-1, SB-12(3-5), and SS-2. Correlations are acceptable, with the exception of those for the following analytes, results for which are qualified as estimated in the following parent samples and their duplicates:

- tetrachloroethene ($\geq \pm$ CRDL) in SSV-1
- copper, chromium, iron, lead, magnesium, manganese, and vanadium (36%RPD to 94%RPD) in SS-2

Volatile Analyses by EPA8260

Results for analytes initially reported with the laboratory “E” flag are derived from the dilution analyses of those samples.

The following detection of t-butylbenzene in SB-5(4-6) is edited to reflect non-detection due to very poor mass spectral identification.

The matrix spikes of MW-2 show acceptable recoveries and correlations for the thirteen evaluated analytes. All target analytes should have been evaluated.

Encore samplers. Use of recovery values in the calculation produces good correlations. Recoveries are also acceptable.

Calibration standards show acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated samples:

- 1,1,2-trichloro-1,2,2-trifluoroethane, carbon disulfide, cyclohexane, methylcyclohexane, and bromoform (25%D to 35%D) in samples MW-4 and Trip Blank
- chloroethane, trichlorotrifluoromethane, and bromoform (22%D to 24%D) in samples MW-1, Blind Dup, MW-2, and Equipment Blank
- carbon disulfide (21%D) in samples TW-2 and Trip Blank

Some of the samples were reported at initial dilution due to concentrations of target analytes. This results in elevated reporting limits for the affected samples.

TCL Semivolatiles by EPA8270

The following detections are qualified tentative in identification and estimated in value due to poor mass spectral identification:

- diethylphthalate in Blind Dup (of MW-2)
- sec-butylbenzene in SB-5(4-6)
- fluorene in SB-1(2-4) and SB-9(2-4)
- acenaphthylene in SB-8(6-8)
- dibenzofuran in HC-6(0.3-2.0)
- acenaphthene, dibenz(a,h)anthracene, and dibenzofuran in HC-3(.5-1.5)
- indeno(1,2,3-cd)pyrene in HC-3(1.5-2.5)
- 2,4-dimethylphenol, benzo(a)anthracene, and carbazole in TW-2
- phenol in TW-3

The following detections are edited to reflect non-detection due to very poor mass spectral identification due to matrix interferences or analyst interpretation error:

- acetophenone in SB-5(4-6)
- benzo(a)anthracene in SB-7(2-4), SB-9(2-4), SB-10(8-10), and HC-3(0.5-1.5)
- indeno(1,2,3-cd)pyrene in SB-11(3-5)
- 2,6-dinitrotoluene, butylbenzylphthalate, and isophorone in TW-2

Due to presence in the method associated blanks, the following detections are considered contamination, and edited to reflect non-detection:

- di-n-butyl phthalate, butyl benzyl phthalate, and phenanthrene in the aqueous samples reported in SDGs 480-55718-1
- benzaldehyde in samples reported in SDG 480-57543-1

TW-3 exhibited low recoveries for four of the six surrogate standards. Therefore, the results of that sample are qualified as estimated in value.

Matrix spikes of MW-2 show low recoveries for acenaphthene (56% and 58%), and the result for that compound in the parent sample is qualified as estimated. The matrix spikes of SS-1 show acceptable accuracy and precision for the twelve evaluated analytes. All target analytes should have been evaluated.

Matrix spikes of MW-2 show low recoveries for acenaphthene (56% and 58%), and the result for that compound in the parent sample is qualified as estimated. The matrix spikes of SS-1 show acceptable accuracy and precision for the twelve evaluated analytes. All target analytes should have been evaluated.

Due to outlying recoveries (142% and 144%) in the associated LCS, the results for bis-2-(ethylhexyl)phthalate in the samples reported in SDG 480-57543-1 are to be qualified as estimated.

Calibration standards show acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated samples:

- hexachlorocyclopentadiene and benzo (g,h,i) perylene (23%D and 38%D) in samples SB-1 (2-4), SB-2 (4-6), SB-3 (2-4), SB-4 (0.5-4.0), SB-5 (4-6), SB-6 (5-7), SB-7 (2-4), SB-8 (6-8), SB-9 (2-4), and SS-1
- hexachlorocyclopentadiene and 2,4-dinitrophenol (24%D and 39%D) in samples SS-2, Blind Dup #1, SS-3, HC-4 (0.7-2.0), HC-5 (0.4-1.7), and HC-6 (0.3-2.0)
- caprolactum and pentachlorophenol (low RRFs) in samples reported in SDG 480-47822-1

Aroclor PCBs, TCL Pesticides, and Herbicides by EPA methods 8081B, 8082, and 8151

Many of the pesticide detections exhibit elevated dual column quantitative correlations. Those detections have been either qualified as estimated, qualified as tentative in identification and estimated in value, or edited to non-detection, depending on the degree of variance and subsequent uncertainty in identification.

Due to presence in the associated blanks, the following detections are considered contamination, and edited to reflect non-detection:

- d-BHC, g-BHC, 4,4'-DDD, 4,4'-DDT, and g-chlordane in the aqueous samples reported in SDGs 480-47822-1
- d-BHC in SS-1, SB-6(5-7), and SB-9(2-4)

Many of the pesticide analyses were performed at fivefold to one hundredfold dilution, for reasons that were not evident in the raw data. Therefore, reporting limits may be unnecessarily elevated proportionally, the evaluations of extraction efficiency through surrogate responses and matrix effect through matrix spikes are inhibited, and detections are at levels below the adjusted reporting limit (lending a greater level of uncertainty). The adjusted reporting limits may be above the levels of concern for this project.

Due to low surrogate standard recoveries, the results for pesticides in MW-4 are qualified as estimated in value, and may have a low bias.

The pesticide matrix spikes of MW-2 were performed at fivefold dilution. They show erratic recoveries, with one value less than 10% (79% and 9%) for heptachlor epoxide. The result of that analyte in the parent sample has been qualified as estimated in value.

The pesticide matrix spikes of SS-1 cannot be evaluated due to processing at one hundred fold dilution.

The Aroclor 1016/1260 and herbicide matrix spikes of MW-2 and SS-1, and the pesticide and Aroclor 1016/1260 matrix spikes of SB-15(0.2-2.0), show recoveries and duplicate correlations that are within validation action limits.

In data package 480-47822-1, the laboratory reported only summary forms for only one of the pesticide analytical columns, and did not report the summary forms (Forms 10A) for the pesticide dual column quantitative correlations. Raw data for that evaluation were reviewed.

TAL Metals/CN Analyses by EPA 6010, 7470, 7471, and 9012

Due to delayed filtration and preservation (performed at the laboratory), the results for the dissolved metals are to be qualified as estimated in value.

Matrix spikes/duplicate evaluations for metals in MW-2 and for mercury in SB-7(2-4) show recoveries and correlations within analytical and validation guidelines. The matrix spike of cyanide in MW-2 shows a marginally low recovery (89%); no qualification is made.

Barium and iron produced outlying recoveries (-4% and 27% for the former and 175% and 148% for the latter) in the matrix spikes of SS-1. Iron also produced an elevated duplicate correlation (64%RPD). The results for these two elements in the parent sample are qualified as estimated in value.

The ICP serial dilution evaluations of MW-2 and SS-1 show correlations within validation guidelines.

The blanks show no contamination affecting sample reported results.

Volatile Analyses by EPA TO-15

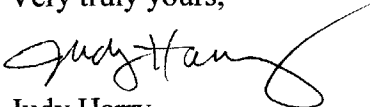
Holding times were met, LCS recoveries are acceptable, and internal standard responses are compliant.

Initial and continuing calibration standard responses fall within validation guidelines.

Holding times and instrument tunes meet requirements. Method and canister blanks show no contamination. The clean canister certifications were reviewed during validation.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Att: Validation Qualifier Definitions
Client and Laboratory Sample IDs and Laboratory Case Narratives

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs
and LABORATORY CASE NARRATIVES**

SAMPLE SUMMARY

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-47822-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-47822-1	MW-1	Water	10/09/2013 1530	10/11/2013 1225
480-47822-2	Blind Dup	Water	10/09/2013 1200	10/11/2013 1225
480-47822-3	MW-2	Water	10/09/2013 1407	10/11/2013 1225
480-47822-3MS	MW-2	Water	10/09/2013 1407	10/11/2013 1225
480-47822-3MSD	MW-2	Water	10/09/2013 1407	10/11/2013 1225
480-47822-4	MW-4	Water	10/10/2013 0928	10/11/2013 1225
480-47822-5	Equipment Blank	Water	10/09/2013 1330	10/11/2013 1225
480-47822-6	Trip Blank	Water	10/09/2013 0000	10/11/2013 1225

SAMPLE SUMMARY

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-55442-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-55442-1	SSV-1	Air	02/27/2014 1008	03/03/2014 1245
480-55442-2	DUP #1	Air	02/27/2014 1010	03/03/2014 1245
480-55442-3	AMBIENT #1	Air	02/27/2014 1007	03/03/2014 1245
480-55442-4	SSV-2	Air	02/27/2014 1014	03/03/2014 1245
480-55442-5	AMBIENT #2	Air	02/27/2014 1012	03/03/2014 1245
480-55442-6	SSV-3	Air	02/27/2014 1017	03/03/2014 1245
480-55442-7	AMBIENT #3	Air	02/27/2014 1019	03/03/2014 1245
480-55442-8	OUTSIDE AMBIENT	Air	02/27/2014 0955	03/03/2014 1245

SAMPLE SUMMARY

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-55676-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-55676-1	SB-1 (2-4)	Solid	03/06/2014 1031	03/07/2014 1120
480-55676-2	SB-2 (4-6)	Solid	03/06/2014 0957	03/07/2014 1120
480-55676-3	SB-3 (2-4)	Solid	03/06/2014 1155	03/07/2014 1120
480-55676-4	SB-4 (0.5-4.0)	Solid	03/06/2014 1108	03/07/2014 1120
480-55676-5	SB-5 (4-6)	Solid	03/06/2014 1538	03/07/2014 1120
480-55676-6	SB-6 (5-7)	Solid	03/06/2014 1506	03/07/2014 1120
480-55676-7	SB-7 (2-4)	Solid	03/06/2014 1411	03/07/2014 1120
480-55676-7MS	SB-7 (2-4)	Solid	03/06/2014 1411	03/07/2014 1120
480-55676-7MSD	SB-7 (2-4)	Solid	03/06/2014 1411	03/07/2014 1120
480-55676-8	SB-8 (6-8)	Solid	03/06/2014 1500	03/07/2014 1120
480-55676-9	SB-9 (2-4)	Solid	03/06/2014 1406	03/07/2014 1120
480-55676-10	SS-1	Solid	03/06/2014 1354	03/07/2014 1120
480-55676-10MS	SS-1	Solid	03/06/2014 1354	03/07/2014 1120
480-55676-10MSD	SS-1	Solid	03/06/2014 1354	03/07/2014 1120
480-55676-11	SS-2	Solid	03/06/2014 1453	03/07/2014 1120
480-55676-12	Blind Dup #1	Solid	03/06/2014 1300	03/07/2014 1120
480-55676-13	SS-3	Solid	03/06/2014 1552	03/07/2014 1120
480-55676-14	HC-1 (0.3-1.4)	Solid	03/05/2014 1220	03/07/2014 1120
480-55676-15	HC-2 (0.4-2.0)	Solid	03/05/2014 1248	03/07/2014 1120
480-55676-16	HC-4 (0.7-2.0)	Solid	03/05/2014 1449	03/07/2014 1120
480-55676-17	HC-5 (0.4-1.7)	Solid	03/05/2014 1520	03/07/2014 1120
480-55676-18	HC-6 (0.3-2.0)	Solid	03/05/2014 1550	03/07/2014 1120

SAMPLE SUMMARY

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-55718-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-55718-1	Cistern	Water	03/07/2014 1256	03/07/2014 1710
480-55718-2	TW-1	Water	03/07/2014 1233	03/07/2014 1710

SAMPLE SUMMARY

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-57215-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-57215-1	SB-10 (8-10)	Solid	04/02/2014 1130	04/03/2014 1405
480-57215-2	SB-11 (3-5)	Solid	04/02/2014 1100	04/03/2014 1405
480-57215-3	SB-12 (3-5)	Solid	04/02/2014 1020	04/03/2014 1405
480-57215-4	HC-3 (.5-1.5)	Solid	04/02/2014 1510	04/03/2014 1405
480-57215-5	HC-3 (1.5-2.5)	Solid	04/02/2014 1350	04/03/2014 1405
480-57215-6	BLIND DUP	Solid	04/02/2014 0800	04/03/2014 1405

SAMPLE SUMMARY

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-57543-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-57543-1	SB-13 (6-8)	Solid	04/08/2014 1305	04/09/2014 1220
480-57543-2	SB-14 (0.3-2.0)	Solid	04/08/2014 0928	04/09/2014 1220
480-57543-3	SB-14 (2-4)	Solid	04/08/2014 0938	04/09/2014 1220
480-57543-4	SB-15 (0.2-2.0)	Solid	04/08/2014 1011	04/09/2014 1220
480-57543-5	SB-15 (2-4)	Solid	04/08/2014 1020	04/09/2014 1220
480-57543-6	SB-16 (0.2-2.0)	Solid	04/08/2014 1050	04/09/2014 1220
480-57543-7	SB-16 (2-4)	Solid	04/08/2014 1055	04/09/2014 1220
480-57543-8	TW-2	Water	04/08/2014 1347	04/09/2014 1220
480-57543-9	TW-3	Water	04/08/2014 1425	04/09/2014 1220
480-57543-10	MW-3	Water	04/08/2014 1428	04/09/2014 1220
480-57543-11	TRIP BLANK	Water	04/08/2014 0000	04/09/2014 1220

Job Narrative
480-47822-1

Receipt

The samples were received on 10/11/2013 12:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.0° C, 3.6° C and 4.2° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with analytical batch 146088 recovered outside acceptance criteria, low biased, for multiple analytes. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for these analytes, the data have been reported.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for batch 146167 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) for multiple analytes associated with batch 145503 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 144942 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 144942 was outside control limits. These results have been reported and qualified.

Method(s) 8270D: The following sample(s) contained one acid and/or one base surrogate outside acceptance limits: Blind Dup (480-47822-2). The laboratory's SOP allows one acid surrogate and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample(s) contained one acid and/or one base surrogate outside acceptance limits: MW-4 (480-47822-4). The laboratory's SOP allows one acid surrogate and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C, 8270D: The following sample(s) contained one acid and/or one base surrogate outside acceptance limits: MW-2 (480-47822-3 MS), MW-2 (480-47822-3 MSD). The laboratory's SOP allows one acid surrogate and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 144942 recovered outside control limits for the following analyte: Acenaphthene. Several other analytes for this spike exceeded recovery limits. Due to the large number of analytes no re-extraction was needed.

Method(s) 8270D: Due to LIMS limitations the form VI for the related job is flagging the data as outside of limits for 8270D when the compounds that are flagged are in fact compliant, this is being addressed with further LIMS development.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8081B: The following sample and matrix spikes were diluted due to matrix effects: MW-2 (480-47822-3), MW-2 (480-47822-3 MS), MW-2 (480-47822-3 MSD), elevated reporting limits (RLs) are provided.

Method(s) 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch 145223 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. These results have been reported and qualified.

Method(s) 8081B: The following samples were diluted due to the nature of the sample matrix: Blind Dup (480-47822-2), MW-1 (480-47822-1). Elevated reporting limits (RLs) are provided.

Method(s) 8081B: For method 8081, the recovery of the one surrogate in samples Blind Dup (480-47822-2), MW-1 (480-47822-1), MW-2 (480-47822-3), MW-2 (480-47822-3 MSD), MW-4 (480-47822-4) exceeds quality control limits due to the sample matrix. The recovery of the secondary surrogate is within quality control criteria; no corrective action is required.

Method(s) 8081B: All primary data is reported from the RTX-CLPI column.

Method(s) 8081B: The method blank MB 480-145223/1-A contained multiple analytes above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8082A: The surrogate percent difference in the associated continuing calibration verifications (CCV) for Tetrachloro-m-xylene and was decreased and slightly exceeded 15% on the ZB-5 column, indicating a low bias. (CCV 480-145203/19), (CCV 480-145203/8)

Method(s) 8082A: All primary data is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8151A: All primary data is reported from the RTX-CLPI column.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 9012B: The matrix spike (MS) recoveries for batch 145761 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. MW-2 (480-47822-3 MS)

No other analytical or quality issues were noted.

Organic Prep

Method(s) 8151A: During pH adjustment, the following sample required 15mL's of acid to reach the desired pH: Equipment Blank (480-47822-5).

No other analytical or quality issues were noted.

Job Narrative
480-55442-1

Receipt

The samples were received on 3/3/2014 12:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 21.0° C and 21.0° C.

Except:

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): DUP #1 (480-55442-2). The Flow Controller used has an ID # of 3936. The COC lists a Flow Controller ID# of 3963.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): AMBIENT #2 (480-55442-5). The Flow Controller used for sample 5 has a ID # of 3060. The COC lists a Flow Controller # of 3040.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): AMBIENT #3 (480-55442-7), DUP #1 (480-55442-2), OUTSIDE AMBIENT (480-55442-8), SSV-1 (480-55442-1). The container labels do not list the sample end date. Logged in per end date (02/27/14) on COC.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): AMBIENT #3 (480-55442-7), DUP #1 (480-55442-2), OUTSIDE AMBIENT (480-55442-8), SSV-3 (480-55442-6). The container labels do not list a sample time. Logged in per sample end time on COC.

Air Toxics

Method(s) TO15 LL: The continuing calibration verification (CCV) associated with batch <<69375>> recovered above the upper control limit for <<butadiene>>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: AMBIENT #1 (480-55442-3), AMBIENT #2 (480-55442-5), AMBIENT #3 (480-55442-7), OUTSIDE AMBIENT (480-55442-8).

Method(s) TO15 LL: See internal comments

No other analytical or quality issues were noted.

Job Narrative
480-55676-1

Receipt

The samples were received on 3/7/2014 11:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

GC/MS VOA

Method(s) 8260C: The method blank for batch 169249 contained Acrylonitrile and/or Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The following sample was analyzed using medium level soil techniques to bring the concentration of target analytes within the calibration range: SB-5 (4-6) (480-55676-5). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix : SS-1 (480-55676-10), SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD). As such, surrogate and spike recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) for analytical batch 169629 recovered outside control limits for multiple analytes. These analytes were within acceptable limits in the low level calibration verification (CCVL), therefore the data have been qualified and reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 169629 recovered above the upper control limit for Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-169629/4).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 169510 recovered outside control limits for two analytes. Four analytes are allowed outside limits when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: SS-3 (480-55676-13). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: HC-6 (0.3-2.0) (480-55676-18). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-6 (5-7) (480-55676-6). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) for analytical batch 169690 recovered outside control limits for multiple analytes. These analytes were within acceptable limits in the low level calibration verification (CCVL), therefore the data have been qualified and reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 169690 recovered above the upper control limit for Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-169690/4).

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8081B: The following samples were diluted due to the nature of the sample matrix : Blind Dup #1 (480-55676-12), SB-6 (5-7) (480-55676-6), SB-7 (2-4) (480-55676-7), SB-8 (6-8) (480-55676-8), SS-1 (480-55676-10), SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD), SS-2 (480-55676-11), SS-3 (480-55676-13). As such, surrogate and spike recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8081B: The method blank MB 480-169695/1-A contained the analyte delta-BHC above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8081B: All primary data is reported from the RTX-CLPII column.

Method(s) 8081B: The continuing calibration verification (CCV 480-169728/17) for Toxaphene was increased and exceeded control criteria of 20% D, though all associated samples did not show any potential pattern. The data has been reported.

Method(s) 8082A: Surrogate recovery for the following samples was outside control limits: SS-3 (480-55676-13). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

Method(s) 8082A: All primary data is reported from the ZB-35 column.

Method(s) 8082A: The following sample(s) was diluted due to the abundance of non-target analytes: SB-8 (6-8) (480-55676-8), SS-1 (480-55676-10), SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 170053 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-170053/13).

Method(s) 8151A: All primary data is reported from the RTX-CLPI column.

No other analytical or quality issues were noted.

Metals

Method(s) 6010C: The recoveries of Post Spike, (480-55676-10 PDS), in batch 480-169834 exhibited results outside the quality control limits for total aluminum, chromium, iron, magnesium, and zinc. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary.

Method(s) 6010C: The following samples were diluted to bring the concentration of target analyte total calcium within the linear range: (480-55676-10 PDS), (480-55676-10 SD), Blind Dup #1 (480-55676-12), SS-1 (480-55676-10), SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD), SS-2 (480-55676-11). Elevated reporting limits (RLs) are provided.

Method(s) 7471B: The following samples were diluted to bring the concentration of the target analyte total mercury within the calibration range: HC-5 (0.4-1.7) (480-55676-17), HC-6 (0.3-2.0) (480-55676-18), SB-3 (2-4) (480-55676-3). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep

Method(s) 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: SS-1 (480-55676-10), SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD).

Method(s) 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: Blind Dup #1 (480-55676-12), SB-6 (5-7) (480-55676-6), SB-7 (2-4) (480-55676-7), SB-8 (6-8) (480-55676-8), SS-1 (480-55676-10), SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD), SS-2 (480-55676-11), SS-3 (480-55676-13).

Method(s) 3550C: The following samples: SB-4 (0.5-4.0) (480-55676-4) was decanted prior to preparation.

Method(s) 8151A: The following samples: SS-1 (480-55676-10), SS-2 (480-55676-11) was decanted prior to preparation.

Method(s) 8151A: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: SS-1 (480-55676-10 MS), SS-1 (480-55676-10 MSD).

No other analytical or quality issues were noted.

Job Narrative
480-55718-1

Receipt

The samples were received on 3/7/2014 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 169671 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-169671/4).

Method(s) 8270D: The laboratory control sample (LCS) for batch 169485 recovered outside control limits for one analyte. Four analytes are allowed outside limits when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The method blank MB 480-169485/1-A contained multiple analytes above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job Narrative
480-57215-1

Receipt

The samples were received on 4/3/2014 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

GC/MS VOA

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for batch 173750 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria. (CCVIS 480-173750/4)

Method(s) 8260C: Reported analyte concentrations in the following samples are below 200ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: SB-10 (8-10) (480-57215-1).

Method(s) 8260C: The following sample was analyzed medium level to bring the concentration of target analytes within the calibration range: SB-10 (8-10) (480-57215-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for 174052 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The laboratory control sample (LCS) for batch 174052 recovered outside control limits for the following analytes: Bromomethane, Dichlorodifluoromethane, and Trichlorofluoromethane. These analytes were not requested spike compounds; therefore, the data have been qualified and reported.

Method(s) 8260C: The method blank for batch 174078 contained 1,2,4-Trichlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 174166 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The following sample(s) was analyzed medium level to bring the concentration of target analytes within the calibration range: SB-11 (3-5) (480-57215-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) for batch 174052 recovered outside control limits for the following analyte: Trichlorofluoromethane. This analyte was not requested spike compounds; therefore, the data have been qualified and reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for batch 173815 recovered outside control limits for one analyte. Four analytes are allowed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8081B: All primary data is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data is reported from the ZB-35 column.

Method(s) 8151A: All primary data is reported from the RTX-CLPI column.

No other analytical or quality issues were noted.

Metals

Method(s) 6010C: The continuing calibration blank (CCB 480-175136/25) contained total iron above the reporting limit (RL). All reported samples (LCSSRM 480-174370/2-), (MB 480-174370/1-A) associated with this CCB were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-175136/26) contained total iron outside the control limits. All reported samples (LCSSRM 480-174370/2-), (MB 480-174370/1-A) associated with this CCVL were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-175136/37) contained total iron outside the control limits. All reported samples SB-10 (8-10) (480-57215-1) associated with this CCVL were either below the laboratory's standard reporting limit for

Job Narrative
480-57543-1

Receipt

The samples were received on 4/9/2014 12:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

Except:

Headspace in 2 of 3 vials for sample -08 and all 3 vials for sample -09TW-2 (480-57543-8), TW-3 (480-57543-9)

GC/MS VOA

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: TW-2 (480-57543-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for 174797 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (480-57543-8 MS), (480-57543-8 MSD), TW-2 (480-57543-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: TW-3 (480-57543-9).

Method(s) 8260C: A dilution was performed creating elevated reporting limits for the following sample due to an excessive amount of sediment in the sample vial: TW-3 (480-57543-9).

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 175383 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-175383/4), (CCVIS 480-175383/3).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 174901 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 175693 recovered above the upper control limit for 4-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-175693/19).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 174858 recovered outside control limits for the following analyte: N-Nitrosodiphenylamine. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: Surrogate recovery for the following samples was outside control limits: TW-2 (480-57543-8), TW-3 (480-57543-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The continuing calibration verification (CCV) associated with analytical batch 480-176136 recovered above the upper control limit for 4-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-176136/3).

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: MW-3 (480-57543-10). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The method blank MB 480-174858/1-A contained the analyte Benzaldehyde above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8081B: The following sample and matrix spikes were diluted due to matrix effects: (480-57543-4 MS), (480-57543-4 MSD), SB-15 (0.2-2.0) (480-57543-4). Spike and Surrogate recoveries are not reported or not representative, and elevated reporting limits (RLs) are provided.

Method(s) 8081B: All primary data is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data is reported from the ZB-35 column.

No other analytical or quality issues were noted.

Metals

Method(s) 3005A: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: TW-3 (480-57543-9). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-175618/17) contained total vanadium outside the control limits. All reported samples (LCS 480-174859/2-A), (MB 480-174859/1-A) associated with this CCVL were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The following sample was diluted to bring the concentration of target analyte total calcium within the linear range: TW-3 (480-57543-9). Elevated reporting limits (RLs) are provided.

Method(s) 7470A: The Method Blank for preparation batch 175150 contained total mercury above the reporting limit (RL). The associated sample(s) TW-2 (480-57543-8), TW-3 (480-57543-9) contained detects for this analyte at concentrations greater than 10X the value found in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 245.1, 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples: TW-3 (480-57543-9). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The samples was prepared and analyzed at a 5x dilution, which maintained the purple color during digestion.

No other analytical or quality issues were noted.

Organic Prep

Method(s) 3510C: The following sample: TW-3 (480-57543-9) was decanted prior to preparation.

No other analytical or quality issues were noted.

APPENDIX G

TEMPORARY DISCHARGE PERMIT

EPA CATEGORY 40 CFR 403

Expiration Date: May 23, 2015

Date Paid: May 22, 2014

BUFFALO SEWER AUTHORITY
TEMPORARY DISCHARGE PERMIT

Permittee: SAVARINO COMPANIES, LLC

Location Address: 95 PERRY STREET, SUITE 104, BUFFALO, NEW YORK 14203

The above named Permittee is hereby approved to discharge **groundwater** to the BSA Wastewater Treatment Plant only, from:

500 SENECA STREET, BUFFALO, NEW YORK 14203

to the Buffalo Sewer Authority facilities in accordance with the Buffalo Sewer Authority Regulations, Article VI, Section 14, and subject to the following conditions:

ARTICLE 1 CONDITIONS OF ACCEPTANCE

The discharge of the approved waste by the Permittee shall be subject to the following conditions:

a. Times, Location & Rate

The following location is designated for discharge during the hours listed and subject to the limit for rate of discharge specified:

Location: 500 Seneca Street, from the Primary Discharge Point 001
(see attached site map)

Time Discharge is Permitted: 8:00am to 5:00pm

Limit on Rate of Discharge: 60 gallons per minute, Buffalo Sewer Authority
Wastewater Treatment Plant only, dry weather only

b. Operations

The Permittee shall maintain cleanliness, minimize odors, ensure necessary sediment control measures are in place and maintained and protect the Buffalo Sewer Authority facilities during the permittee's operations. The Permittee shall not permit any condition to arise which may pose a threat to public health or safety.

c. Samples and Analyses

The Buffalo Sewer Authority may from time to time, require the Permittee to sample and analyze its waste discharges. Such sampling and analyses shall be performed and results submitted by a New York State Dept. of Health certified laboratory. The analyses required shall be as specified by the Buffalo Sewer Authority, which also reserves the right, at its convenience, to sample wastes discharged by the Permittee.

d. Refusal to Discharge

The Buffalo Sewer Authority may refuse the Permittee permission to discharge wastes at any time and for any reason whatsoever, for the protection of sewer facilities against damage or flooding; to assure the proper operation and maintenance of said facilities; or to protect public health, safety or welfare.

e. Local Limits

Except as otherwise specified in this permit, the permit holder shall comply with all specific prohibitions, limits on pollutants or pollutant parameters set forth in the Buffalo Sewer Authority Sewer Use Regulations, as amended from time to time, and such prohibitions, limits and parameters shall be deemed pretreatment standards for purposes for the Clean Water Act.

ARTICLE 2 REGULATIONS

The Permittee must conform to all Buffalo Sewer Authority regulations and appropriate Federal, State and County Statutes, rules, mandates, directives, and orders concerning the collection, transportation, treatment and disposal of wastewaters.

ARTICLE 3 INSURANCE AND INDEMNIFICATION

The Permittee, agrees to indemnify and hold harmless the Buffalo Sewer Authority and its agents and employees against any and all claims resulting from work performed under this permit. The permittee shall be solely responsible for any and all injury or damage to its employees or property arising from use of Buffalo Sewer Authority facilities under this permit.

In the event of any alteration, non-renewal or cancellation of these policies, at least (45) forty-five days advance notice shall be given to the Industrial Waste Section, Bird Island Treatment Plant, 90 West Ferry Street, Buffalo, New York 14213 - before such change shall be effective.

ARTICLE 4 TERMINATION FOR VIOLATION OF AGREEMENT

In the event of a violation of any of the terms and conditions of this permit by the Permittee or upon the failure to pay the charges herein specified, the Buffalo Sewer Authority shall terminate the permit by service of notice of termination by registered mail at the Permittee's office address as set forth above.

ARTICLE 5 PERMITTEE APPROVAL

Official: William R. Paul Title: Sr. Project Manager
Print Name Print
Signature: [Signature] Date: 5/29/2014

ARTICLE 6 BUFFALO SEWER AUTHORITY APPROVAL

Approved as to Content:

Signature: [Signature] Date: 05/29/2014
Industrial Waste Administrator

Effective this 30th day of May, 2014

[Signature]
General Manager
Buffalo Sewer Authority

APPENDIX H

ELECTRONIC COPY OF RI/IRM/AA REPORT