

31-14 38TH AVENUE

QUEENS, NEW YORK

Remedial Investigation Report

OER Project Number 15EH-A267Q

E-Designation E-218

CEQR Number 08DCP021Q

Prepared for:

Yuk Lam, P.E.

48-91 187th Street

Fresh Meadows, NY 11365

lamengineeringpc@gmail.com

Prepared by:

GEI Consultants Inc., P.C.

110 Walt Whitman Road, Huntington Station, NY

nrecchia@geiconsultants.com

631 760-9300

January 2015

REMEDIAL INVESTIGATION REPORT

TABLE OF CONTENTS

FIGURES.....	3
LIST OF ACRONYMS	6
CERTIFICATION	7
EXECUTIVE SUMMARY	8
REMEDIAL INVESTIGATION REPORT	12
1.0 SITE BACKGROUND.....	12
1.1 Site Location and Current Usage	12
1.2 Proposed Redevelopment Plan	12
1.3 Description of Surrounding Property.....	13
2.0 SITE HISTORY	14
2.1 Past Uses and Ownership.....	14
2.2 Previous Investigations	14
2.3 Site Inspection.....	14
2.4 Areas of Concern	14
3.0 PROJECT MANAGEMENT	15
3.1 Project Organization	15
3.2 Health and Safety	15
3.3 Materials Management.....	15
4.0 REMEDIAL INVESTIGATION ACTIVITIES.....	16
4.1 Geophysical Investigation.....	16
4.2 Borings and Monitoring Wells.....	16
4.3 Sample Collection and Chemical Analysis.....	18
5.0 ENVIRONMENTAL EVALUATION.....	22
5.1 Geological and Hydrogeological Conditions.....	22
5.2 Soil Chemistry	22
5.3 Groundwater Chemistry.....	23
5.4 Soil Vapor Chemistry	24
5.5 Prior Activity	26
5.6 Impediments to Remedial Action	26

FIGURES

Figure 1 - Site Map

Figure 2 - Sample Location Map

Figure 3 - Map of Soil Chemistry Results

Figure 4 - Map of Groundwater Chemistry Results

TABLES

Table 1 - Soil Analytical Data Summary

Table 2 - Groundwater Analytical Data Summary

Table 3 - Soil Vapor Analytical Data Summary

APPENDICES

Appendix 1 – Development Plans

Appendix 2 – Phase I Report

Appendix 3 - Health and Safety Plan

Appendix 4 - Soil Boring Geologic Logs

Appendix 5 - Laboratory Data Deliverables for Soil, Groundwater and Soil Vapor Analytical Data

LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Nicholas J. Recchia, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 31-14 38th Avenue Site (OER Project Number 15EH-A267Q). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Qualified Environmental Professional

Date

Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 31-14 38th Avenue in the Long Island City section in Queens, New York and is identified as Block 382 and Lot 17 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 4,480-square feet and is bounded by 38th Avenue to the north, residential property to the south, and commercial properties to the east and west. A map of the site boundary is shown in Figure 2. Currently, the Site is a vacant 2-story residential and commercial building with a one-story garage on the southwest side of the property.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of a new 6-story mixed-use building. The current zoning designation is M1-2/R6A. The proposed use is consistent with existing zoning for the property.

The proposed building consists of first floor commercial space including a terrace, one level of underground space (cellar) for parking and utility rooms and residential space on floors two through six. The building will encompass the entire lot footprint. Access to the cellar will be available from street level from an approximately 8 foot wide ramp located at the western end of the Site. The finished floor elevation of the cellar will require excavation to a depth of approximately 12 feet below existing grade. The volume of excavation is anticipated to be approximately 1,692 cubic yards. The water table was encountered at approximately 21 feet below grade surface (bgs).

Summary of Past Uses of Site and Areas of Concern

The current structure on the site was built approximately 1920. It is believed that the property has primarily been used as a private residence. Currently, the property is vacant and owned by Paulovich Realty Corporation. The property currently consists of two residential units

and two commercial units. The adjacent commercial business to the west (Tire Shop) rents the garage and side parking area.

Areas of Concern were limited to the potential presence of a heating oil UST underneath the driveway.

Summary of the Work Performed under the Remedial Investigation

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed five soil borings across the entire project Site, and collected 10 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed three soil vapor probes around Site perimeter and collected three samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property ranges from 30 to 32 feet.
2. Depth to groundwater ranges from approximately 21 to 22 feet at the Site.
3. Groundwater flow is generally from north to south beneath the Site.
4. Bedrock was not encountered at the Site during the investigation.
5. The stratigraphy of the site, from the surface, consists predominately of natural fine to medium sand to at least 15 feet below ground surface. Trace amounts of fill were identified in shallow zones (less than six feet) of the three exterior borings.
6. Soil/fill samples results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives and Restricted Residential Soil Cleanup Objectives as presented in 6NYCRR Part 375-6.8. No VOC, pesticide or PCB exceedances were identified in the soil samples collected. SVOC exceedances of the SCOs were limited to polycyclic aromatic hydrocarbons (PAHs) in one shallow sample. The PAHs included benzo(a)anthracene,

which exceeded both the Unrestricted and Restricted Residential Use SCOs, and benzo(k)fluoranthene and chrysene which only exceeded the Unrestricted Use SCOs. The detection of benzo(a)anthracene (1.18 mg/Kg) was marginal and only slightly above the Restricted Residential Use SCO of 1 mg/Kg. Metals exceedances of the Unrestricted Use SCOs were identified in five samples which were predominantly identified in the shallow (0 to 2 foot) interval. The exceedances of the Unrestricted Use SCOs were all relatively low and included lead, nickel, selenium, mercury and zinc. Exceedances of the Restricted Residential Use SCOs were limited to the shallow (0 to 2 foot) interval at one location. The exceedances of the Restricted Use SCOs included arsenic, barium, copper and lead. The concentrations of arsenic (16.4 mg/Kg) and barium (433 mg/Kg) in the sample only slightly exceeding the respective Restricted Residential Use SCOs of 16 mg/Kg and 400 mg/Kg. The concentrations of copper (375 mg/Kg) and lead (648 mg/Kg) were also relatively low, remaining within the same order of magnitude as the respective Restricted Residential Use SCOs of 270 mg/Kg and 400 mg/Kg.

7. Groundwater sample results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Groundwater samples collected during the investigations contained no VOC, SVOC, pesticide or PCB exceedances. Metals exceedances of the AWQS in the unfiltered samples were identified in each of the three samples and included barium, magnesium, manganese, nickel and sodium in each of the three samples, as well as beryllium, cadmium and copper in GW-2 and selenium in GW-3. The number of exceedances in the filtered samples was significantly less than those in the unfiltered samples. The exceedances in the filtered samples included only magnesium (GW-1 and GW-3), manganese in GW-3 and sodium in all three samples. The magnesium and sodium concentrations above the GQS reached the maximum values of 69,500 ug/L and 201,000 ug/L in GW-3. The GQS for magnesium and sodium are 35,000 ug/L and 20,000 ug/L, respectively. The concentration of manganese in GW-3 (393 ug/L) was only slightly above the GQS of 300 ug/L.
8. Soil vapor results collected during the RI were compared to the compounds listed in Table 3.1 Air Guideline Values derived by the New York State Department of Health (NYSDOH) in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006. Soil vapor samples collected during the RI showed low to moderate levels

of petroleum related and chlorinated VOCs in all soil vapor samples. Total concentrations of petroleum-related VOCs (BTEX) ranged from 38.2 $\mu\text{g}/\text{m}^3$ to 123.5 $\mu\text{g}/\text{m}^3$. Chlorinated VOCs including tetrachloroethene (PCE) (max of 35 $\mu\text{g}/\text{m}^3$) and trichloroethene (TCE) (max of 3.20 $\mu\text{g}/\text{m}^3$) were detected in all soil vapor samples. Carbon tetrachloride was detected in one of the three soil vapor samples with a concentration of 0.31 $\mu\text{g}/\text{m}^3$ and 1,1,1-trichloroethane (TCA) was not detected in any of the samples. None of the detected concentrations of PCE, TCE and carbon tetrachloride were above the monitoring level ranges established within the State DOH soil vapor guidance matrix level ranges established within the NYSDOH Final Guidance on Soil Vapor Intrusion.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

The RI work was performed on December 30, 2014. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 31-14 38th Avenue in the Long Island City section in Queens, New York and is identified as Block 382 and Lot 17 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 4,480-square feet and is bounded by 38th Avenue to the north, residential property to the south, and commercial properties to the east and west. A map of the site boundary is shown in **Figure 2**. Currently, the Site is a vacant 2-story residential and commercial building with a one-story garage on the southwest side of the property.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a new 6-story mixed-use building. Layout of the proposed site development is presented in **Appendix 1**. The current zoning designation is M1-2/R6A. The proposed use is consistent with existing zoning for the property.

The proposed building consists of first floor commercial space including a terrace, one level of underground space (cellar) for parking and utility rooms and residential space on floors two through six. The building will encompass the entire lot footprint. Access to the cellar will be available from street level from an approximately 8 foot wide ramp located at the western end of the Site. The finished floor elevation of the cellar will require excavation to a depth of approximately 12 feet below existing grade. The volume of excavation is anticipated to be approximately 1,692 cubic yards. The water table was encountered at approximately 21 feet below grade surface (bgs).

1.3 Description of Surrounding Property

The immediate surrounding properties consist of a 2-story residential home to the south, and commercial properties to north (across 38th Avenue), east and west. The surrounding neighborhood is a mix of residential along with commercial, industrial/manufacturing, parking and public facilities and institutions. There are no public schools, day care centers or hospitals located within a 500-foot radius.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

The current structure on the site was built circa 1920. It is believed that the property has primarily been used as a private residence. Currently, the property is vacant and owned by Paulovich Realty Corporation. The property currently consists of two residential units and two commercial units. The adjacent commercial business to the west (Tire Shop) rents the garage and side parking area.

2.2 Previous Investigations

Previous investigations at the property have been limited to a Phase I Environmental Site Assessment (ESA) by Merritt Environmental Consulting Corp. in November 2014. Recognized Environmental Conditions (RECs) identified during the Phase I ESA were limited to the likely presence of a heating oil UST underneath the driveway.

2.3 Site Inspection

Prior to the start Phase II investigation activities on December 30th 2014, a walk-through of the site was performed to determine existing conditions and document any unknown site conditions which could impact the field investigation activities. Conditions appeared as was previously outlined in the Phase I ESA and no unusual or significant conditions were identified.

2.4 Areas of Concern

One area of concern, corresponding to the likely location of the heating oil UST underneath the driveway as described in the Phase I ESA, was identified during the magnetometer survey and subsequently investigated. The location of the anomaly, estimated to be approximately four feet wide and six feet long, is shown on **Figure 2**. The depth of the anomaly was not determined. The Phase 1 Report is presented in **Appendix 2**.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Nicholas J. Recchia.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements. A site specific Health and Safety Plan (HASP) (**Appendix 3**) was prepared prior to the start of the investigation.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

The following scope of work was performed at the Site:

5. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
6. Installed five soil borings across the entire project Site, and collected 10 soil samples for chemical analysis from the soil borings to evaluate soil quality;
7. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality;
8. Installed three soil vapor probes throughout the site and collected three samples for chemical analysis.

4.1 Geophysical Investigation

A magnetometer survey was conducted prior to the start of the investigation. An anomaly in the area of the suspected heating oil UST was identified underneath the driveway (**Figure 2**). The anomaly was estimated to be approximately four feet wide and six feet long. The depth of the anomaly was not determined.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

On December 30, 2014, five soil borings were advanced at the Site in the approximate locations shown on **Figure 2**. The three soil borings advanced in the driveway (S-1, S-4 and S-5) were completed using a Geoprobe macrocore sampler and the two advanced beneath the basement floor (S-2 and S-3) were completed manually. The five soil boring locations were chosen to gain representative soil quality information across the Site. The three soil borings completed in the driveway were advanced to 15 feet bgs and the two beneath the basement were advanced to four feet bgs. In each of the borings, soil samples were collected at continuous intervals to the termination depth. For each of the Geoprobe borings, a clear 5-foot expendable acetate liner was installed into the core barrel and advanced 5 feet into the soil. The core barrel was removed, the liner extracted and replaced with a new liner and then advanced an additional 5 feet. The

manual borings were completed with a hand auger. The core barrel tip and hand auger were decontaminated between borings.

The soil was characterized and logged for potential impacts (e.g., odor, staining, anthropogenic materials) and field screened for volatile organic vapors in 6-inch intervals with a photoionization detector (PID).

.Boring logs were prepared by a geologist are attached in **Appendix 4**. A map showing the location of soil borings and monitor wells is shown in **Figure 2**.

Groundwater Monitoring Well Construction

Three temporary groundwater monitoring wells (GW-1 through GW-3) constructed of one-inch slotted polyvinyl chloride (PVC), were installed at the site using direct-push methods. The wells were each installed to a depth of 30-feet below grade with 10-feet of 0.020-inch slotted screen extending from 20-feet to the base of the well. The wells were installed to monitor for the presence of groundwater and to evaluate the water quality underlying the site.

Monitor well locations are shown in **Figure 2**.

Survey

The well casings were surveyed for relative elevation by a trained QEP to facilitate preparation of a groundwater contour map and determine the direction of groundwater flow. The locations of the wells were measured off of fixed points.

Water Level Measurement

Groundwater was measured in each well using a Solinst water-level meter. Water level data is included in the table below.

Well ID	Total Depth	Depth to Water*	Measuring Point Elevation**	Groundwater Elevation**
GW-1	30	22.07	26.56	4.49
GW-2	30	23.90	28.28	4.38
GW-3	30	23.47	27.77	4.30

*: Measured from top of casing

** : Elevations relative

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Five soil borings were completed during this investigation as outlined in the approved work plan. Two soil samples from each boring were collected consisting of a surface sample (0 to 2 feet) and a deeper sample. The deeper samples were collected from 12 to 14 feet in the borings within the driveway (S-1, S-4 and S-5), and from 2 to 4 feet from the borings beneath the basement (S-2 and S-3).

All soil samples were collected in laboratory supplied jars, properly labeled with the boring number and the depth of the sample interval, the date and time of sampling, the analytical requirements, and then placed on ice for the duration of the sampling and transport to the laboratory. A chain of custody form was completed at the time of sampling and maintained until disposition of the samples at the laboratory.

Ten soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in **Table 1. Figure 2** shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Representative groundwater samples were collected using low-flow sampling techniques, a check-valve and dedicated tubing. Sampling was conducted in general accordance with NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated May

2010, and Sampling Guidelines and Protocols, dated March 1991. Groundwater wells were gauged with an electronic water level meter to record a depth to groundwater reading (1/100 foot).

All groundwater samples were collected in laboratory supplied jars, properly labeled with the well ID, the date and time of sampling, the analytical requirements, and then placed on ice for the duration of the sampling and transport to the laboratory. A chain of custody form was completed at the time of sampling and maintained until disposition of the samples to the laboratory. QA/QC samples included a trip blank sample.

Three groundwater samples were collected for chemical analysis during this RI. Groundwater sample collection data is reported in **Table 2**. Approximately two gallons were purged prior to sampling of each well. **Figure 2** shows the location of monitoring wells. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Three soil vapor samples were collected in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006). Soil vapor implants were set at a depth just below the proposed foundation depth (14-feet) in the driveway area (SV-2), or just below the basement slab (SV-1 and SV-3).

The vapor implants within the driveway (SV-2) was installed using 1-inch diameter steel drill rods advanced using direct push drilling methods. The soil vapor points beneath the basement slab were installed using a rotary-hammer drill to penetrate the slab, allowing placement of the soil vapor probe. The soil vapor probes consisted of a prefabricated 2-3 inch perforated steel vapor probe tip attached to 3/8-inch diameter low-density polyethylene (LDPE) plastic riser tubing. Once installed, the vapor probe boreholes were backfilled with #2 morie well grade gravel. A surface seal was placed using an impermeable clay seal installed within the last 6-inches of the probe-hole annulus from surface grade level. The vapor well was purged using pump after installation. Samples were collected for a duration of two hours.

Samples were collected in certified clean 6-liter Summa canisters and were analyzed using USEPA Method TO-15. Flow rate for both purging and sampling did exceed 0.2 L/min. One to three implant volumes were purged prior to the collection of any samples. Relevant sampling information was recorded in the field log.

As part of the vapor intrusion evaluation, a tracer gas was used in accordance with NYSDOH protocols to serve as a quality assurance/quality control (QA/QC) device to verify the integrity of the soil vapor probe seal. A plastic pail was used to keep the tracer gas in contact with the probe during testing. A portable monitoring device was used to analyze a sample of soil vapor for the tracer gas prior to sampling. Helium was not present above 0.1% concentrations prior to, or following sample collection, verifying the integrity of the probe seals.

Three soil vapor probes were installed and three soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in **Figure 2**. Soil vapor sample collection data is reported in **Table 3**. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006*.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by York Analytical Laboratories Benjamin Guliza, Laboratory Director
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and were York Analytical Laboratories, Inc. NYS ELAP #1084
Chemical Analytical Methods	Soil analytical methods: <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Groundwater analytical methods:

	<ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); <p>Soil vapor analytical methods:</p> <ul style="list-style-type: none"> • VOCs by TO-15 VOC parameters.
--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in **Table 1, 2 and 3**, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in **Appendix 5**.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

The stratigraphy of the site, from the surface, consists predominately of natural fine to medium sand to at least 15 feet below ground surface. Trace amounts of fill including asphalt, brick, recycled concrete aggregate (RCA), glass, coal and broken tile were identified in shallow zones (less than six feet) of the three exterior borings (S-1, S-4 and S-5). Higher percentages of gravel and cobbles were identified in boring B-3. Bedrock was not encountered during the investigation. Boring logs are provided in **Appendix 4**.

Hydrogeology

The depth to groundwater at the Site was encountered between approximately 21 and 22 feet below ground surface. Based on the measured elevations (see table in section 4.2), the flow was determined to be generally southward; however, due to the limited spacing and linear orientation of the well locations, the flow direction could not be definitively determined.

5.2 Soil Chemistry

The 10 soil samples collected as part of this investigation was compared to 6 NYCRR Subpart 375-6.8; (a): Unrestricted Use SCOs and the 6 NYCRR Subpart 375-6.8; (b): Restricted Residential Site Cleanup Objectives (SCOs) (**Table 2**). Laboratory analytical results for the soil samples are provided in **Appendix 5**. The distribution of exceedances of the SCOs is provided on **Figure 3**.

Based on observations noted in the field (visual, olfactory, and PID readings) no significant impacts were identified in the soil encountered during the investigation (see boring logs in **Appendix 4**).

No VOC, pesticide or PCB exceedances were identified in the soil samples collected.

SVOC exceedances of the SCOs were limited to the shallow interval (0 to 2 feet) from sample S-5, collected near the south end of the driveway. The SVOC compounds exceeding either the Unrestricted and Restricted Residential Use SCOs were polycyclic aromatic hydrocarbons (PAHs) including benzo(a)anthracene, which exceeded both the Unrestricted and Restricted Residential Use SCOs, and benzo(k)fluoranthene and chrysene which only exceeded

the Unrestricted Use SCOs. The detection of benzo(a)anthracene (1.18 mg/Kg) was marginal and only slightly above the Restricted Residential Use SCO of 1 mg/Kg.

Metals exceedances of the Unrestricted Use SCOs were identified in five samples including S-1 (0 to 2 feet), S-2(0 to 2 feet), S-2(2 to 4 feet), S-4(0 to 2 feet) and S-5(0 to 2 feet). Excluding the sample from 2 to 4 feet at sample location S-2, all of the exceedances of the Unrestricted Use SCOs were identified in the 0 to 2 foot interval. The exceedances of the Unrestricted Use SCOs were all relatively low and included lead [S-4(0 to 2 feet)], nickel [S-5 (0 to 2 feet)], selenium (in each of the five samples with exceedances), mercury [S-4(0 to 2 feet and S-5(0 to 2 feet)] and zinc [S-5 (0 to 2 feet)]. Exceedances of the Restricted Residential Use SCOs were identified in the 0 to 2 foot interval from sample location S-5. The exceedances of the Restricted Use SCOs in this sample included arsenic, barium, copper and lead. The concentrations of arsenic (16.4 mg/Kg) and barium (433 mg/Kg) in the sample only slightly exceeded the respective Restricted Residential Use SCOs of 16 mg/Kg and 400 mg/Kg. The concentrations of copper (375 mg/Kg) and lead (648 mg/Kg) were also relatively low, remaining within the same order of magnitude as the respective Restricted Residential Use SCOs of 270 mg/Kg and 400 mg/Kg.

Low-level PAH and metals contamination are typically found within urban fill type soil. It is important to note that a limited amount of fill comprised of RCA, brick and glass were identified within shallow interval at boring S-5.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in **Table 1**. **Figure 3** shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 1 and Track 2 Soil Cleanup Objectives.

5.3 Groundwater Chemistry

The three groundwater samples collected were compared to the NYSDEC Division of Water Technical and Operation Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) (Table 2). Exceedances of the AWQS in groundwater samples are depicted on **Figure 4**. Laboratory analytical results for the groundwater samples are provided in **Appendix 5**.

No VOC, SVOC, pesticide or PCB exceedances were identified in the groundwater samples collected.

Metals exceedances of the AWQS in the unfiltered samples were identified in each of the three samples. The compounds exceeding the AWQS included barium, magnesium, manganese, nickel and sodium in each of the three samples, as well as beryllium, cadmium and copper in GW-2 and selenium in GW-3.

The number of exceedances in the filtered samples were significantly less than those in the unfiltered samples. The analysis of unfiltered samples can be affected by sediment entrained within the sample; as such, the filtered samples are generally considered to be more representative of groundwater quality. The exceedances in the filtered samples included only magnesium (GW-1 and GW-3), manganese in GW-3 and sodium in all three samples. The magnesium and sodium concentrations above the GQS reached the maximum values of 69,500 ug/L and 201,000 ug/L in GW-3. The GQS for magnesium and sodium are 35,000 ug/L and 20,000 ug/L, respectively. The concentration of manganese in GW-3 (393 ug/L) was only slightly above the GQS of 300 ug/L.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in **Table 2**. **Figure 4** shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

5.4 Soil Vapor Chemistry

Laboratory analytical results for the soil vapor samples are provided in **Table 3** and the laboratory data package is provided in **Appendix 5**. All samples were analyzed for VOCs. Helium levels were measured prior to and following sample collection to verify the integrity of the soil vapor probe seal. No helium was detected in the pre-sample or post-sample measurements above 0.1 %.

The analytical results identified petroleum-related VOCs and chlorinated VOCs at low to moderate concentrations. Petroleum-related VOCs (BTEX) were detected at a maximum concentration of 123.5 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) at SV-2, located nearest the

suspected UST. Overall, the highest reported concentration was for acetone (maximum of 300 $\mu\text{g}/\text{m}^3$) at SV-3.

The only established regulatory criteria for soil vapor are provided in the NYSDOH Guidance. The criteria as listed in the Volatile Chemical Matrix Tables, compare sub-slab vapor concentrations to indoor air concentrations for 1,1,1-trichloroethane, carbon tetrachloride, tetrachloroethylene (PCE), and trichloroethylene (TCE). Since indoor air concentrations were not sampled as part of this investigation, the criteria do not strictly apply; however, a comparison between the minimum sub-slab concentrations in the matrices to the soil vapor samples collected during this investigation can be conservatively performed and the results used as a means to determine if additional investigation or mitigation measures could be warranted.

Trichloroethylene (TCE) and tetrachloroethylene (PCE) were detected in each of the three soil vapor samples with maximum concentrations of 3.2 $\mu\text{g}/\text{m}^3$ and 35 $\mu\text{g}/\text{m}^3$ and respectively in SV-3. Carbon tetrachloride was only detected in SV-1 with a concentration of 0.31 $\mu\text{g}/\text{m}^3$ and 1,1,1-trichloroethane was not detected in any of the three soil vapor samples collected. The detected concentrations of TCE, PCE and carbon tetrachloride were within monitoring level ranges established within the NYSDOH Final Guidance on Soil Vapor Intrusion

Sample ID	NYSDOH Action Level	SV-1 12/30/2014	SV-2 12/30/2014	SV-3 12/30/2014
Sampling Date				
Units	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
1,1,1-Trichloroethane	100	ND	ND	ND
Carbon tetrachloride	5	0.31	ND	ND
Tetrachloroethylene (PCE)	100	13	25	35 D
Trichloroethylene (TCE)	5	1.7	0.91	3.2 D

NOTES:

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

ND: Not detected

D: Result is from an analysis that required a dilution

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in **Table 3**.

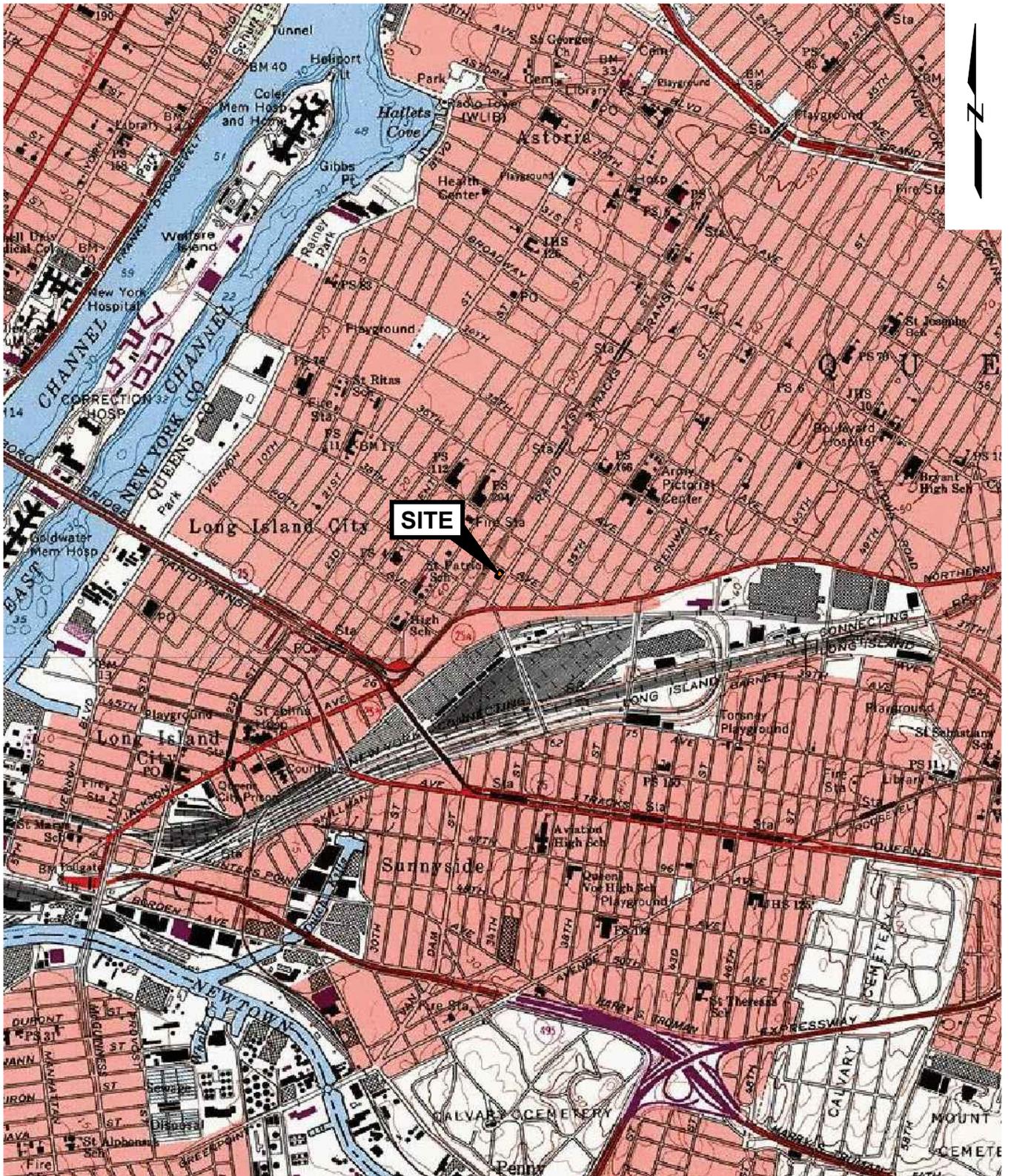
5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

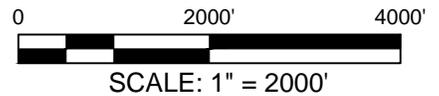
5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

Figures



SOURCE:
 Map created with TOPO! © © 2001 National Geographic
 (www.nationalgeographic.com/topo)



Phase II Environmental Site Assessment
 31-14 38th Avenue
 Queens, New York

Lam Engineer, P.C.
 Fresh Meadows, New York

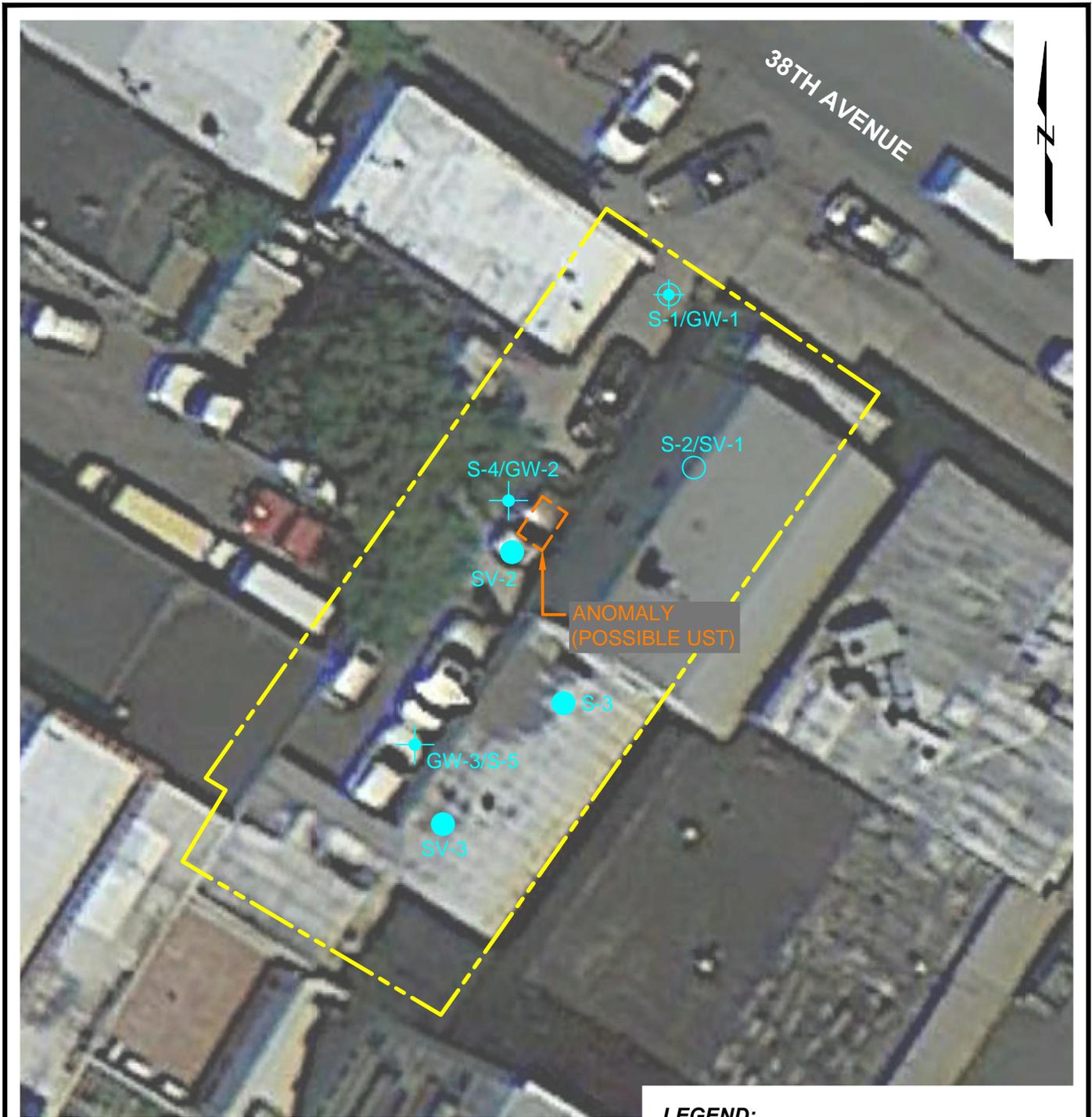


SITE LOCATION MAP

Project 1415450

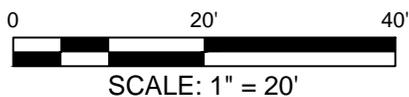
January 2015

Fig. 1



SOURCES:

1. AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE™ EARTH PRO (<http://www.google.com/earth/>), IMAGERY DATE: 6/19/14, ACCESSED ON: 12/18/14.
2. PARCELS FROM THE NYC FINANCE DIGITAL TAX MAP WEBSITE (<http://maps.nyc.gov/taxmap/map.htm>), ACCESSED ON 12/18/14.



LEGEND:

-  PROPERTY BOUNDARY (APPROXIMATE)
-  SOIL AND GROUNDWATER SAMPLE
-  SOIL AND SOIL VAPOR SAMPLE
-  SOIL SAMPLE
-  GROUNDWATER SAMPLE

Phase II Environmental Site Assessment
31-14 38th Avenue
Queens, New York

Lam Engineer, P.C.
Fresh Meadows, New York



Project 1415450

SAMPLE LOCATION MAP

January 2015

Fig. 2



Sample ID	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential	S-4 (0-2)
Sampling Date			12/30/2014
Compound			Result
Metals, Target Analyte	mg/Kg	mg/Kg	mg/kg
Dilution Factor	-	-	1.00
Lead	63	400	156
Selenium	3.9	180	4.04
Mercury by 7473	mg/Kg	mg/Kg	mg/kg
Dilution Factor	-	-	1.00
Mercury	0.18	0.81	0.27

Sample ID	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential	S-1 (0-2)
Sampling Date			12/30/2014
Compound			Result
Metals, Target Analyte	mg/Kg	mg/Kg	mg/kg
Dilution Factor	-	-	1.00
Selenium	3.9	180	4.37

Sample ID	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential	S-2 (0-2)	S-2 (2-4)
Sampling Date			12/30/2014	12/30/2014
Compound			Result	Result
Metals, Target Analyte	mg/Kg	mg/Kg	mg/kg	mg/kg
Dilution Factor	-	-	1.00	1.00
Selenium	3.9	180	4.62	4.71

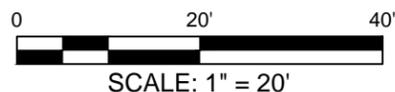
Sample ID	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential	S-5 (0-2)
Sampling Date			12/30/2014
Compound			Result
Semi-Volatiles, 8270 Target List	mg/Kg	mg/Kg	mg/kg
Dilution Factor	-	-	2.00
Benzo(a)anthracene	1	1	1.18
Benzo(k)fluoranthene	0.8	3.9	0.83
Chrysene	1	3.9	2.07
Metals, Target Analyte	mg/Kg	mg/Kg	mg/kg
Dilution Factor	-	-	1.00
Arsenic	13	16	16.40
Barium	350	400	433
Copper	50	270	375
Lead	63	400	648
Nickel	30	310	43.20
Selenium	3.9	180	8.93
Zinc	109	10000	340
Mercury by 7473	mg/Kg	mg/Kg	mg/kg
Dilution Factor	-	-	1.00
Mercury	0.18	0.81	0.30

LEGEND:

-  PROPERTY BOUNDARY (APPROXIMATE)
-  SOIL AND GROUNDWATER SAMPLE
-  SOIL AND SOIL VAPOR SAMPLE
-  SOIL SAMPLE
-  GROUNDWATER SAMPLE

SOURCES:

- AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE™/ EARTH PRO (<http://www.google.com/earth/>), IMAGERY DATE: 6/19/14, ACCESSED ON: 12/18/14.
- PARCELS FROM THE NYC FINANCE DIGITAL TAX MAP WEBSITE (<http://maps.nyc.gov/taxmap/map.htm>), ACCESSED ON 12/18/14.



Phase II Environmental Site Assessment 31-14 38th Avenue Queens, New York		GROUNDWATER SAMPLE EXCEEDANCES
Lam Engineer, P.C. Fresh Meadows, New York		Project 1415450 January 2015



Sample ID	NYSDEC TOGS Standards and Guidance Values - GA	GW-2 12/30/2014
Sampling Date		Result
Compound		Result
Metals, Dissolved - Target Analyte (TAL)	ug/L	ug/L
Dilution Factor	-	1.00
Sodium	20000	49,800
Metals, Target Analyte	ug/L	ug/L
Dilution Factor	-	1.00
Barium	1000	3,030
Beryllium	3	14
Cadmium	5	8
Copper	200	203
Magnesium	35000	195,000
Manganese	300	14,200
Nickel	100	200
Sodium	20000	65,200

Sample ID	NYSDEC TOGS Standards and Guidance Values - GA	GW-1 12/30/2014
Sampling Date		Result
Compound		Result
Metals, Dissolved - Target Analyte (TAL)	ug/L	ug/L
Dilution Factor	-	1.00
Magnesium	35000	48,400
Sodium	20000	121,000
Metals, Target Analyte	ug/L	ug/L
Dilution Factor	-	10.00
Barium	1000	1,280
Magnesium	35000	197,000
Manganese	300	10,200
Nickel	100	129
Sodium	20000	138,000

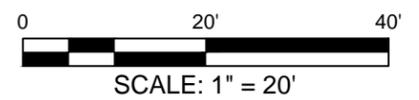
Sample ID	NYSDEC TOGS Standards and Guidance Values - GA	GW-3 12/30/2014
Sampling Date		Result
Compound		Result
Metals, Dissolved - Target Analyte (TAL)	ug/L	ug/L
Dilution Factor	-	1.00
Magnesium	35000	69,500
Manganese	300	393
Sodium	20000	201,000
Metals, Target Analyte	ug/L	ug/L
Dilution Factor	-	10.00
Barium	1000	1,440
Magnesium	35000	198,000
Manganese	300	14,400
Nickel	100	200
Selenium	10	12
Sodium	20000	176,000

LEGEND:

-  PROPERTY BOUNDARY (APPROXIMATE)
-  SOIL AND GROUNDWATER SAMPLE
-  SOIL AND SOIL VAPOR SAMPLE
-  SOIL SAMPLE
-  GROUNDWATER SAMPLE

SOURCES:

1. AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE™/ EARTH PRO (<http://www.google.com/earth/>), IMAGERY DATE: 6/19/14, ACCESSED ON: 12/18/14.
2. PARCELS FROM THE NYC FINANCE DIGITAL TAX MAP WEBSITE (<http://maps.nyc.gov/taxmap/map.htm>), ACCESSED ON 12/18/14.



Phase II Environmental Site Assessment 31-14 38th Avenue Queens, New York		GROUNDWATER SAMPLE EXCEEDANCES
Lam Engineer, P.C. Fresh Meadows, New York		Project 1415450 January 2015

Tables

Table 1. Soil Sample Analytical Results
Phase II Subsurface Investigation
31-14 38th Avenue
Long Island City, New York

Sample ID Sampling Date	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	S-1 (0-2) 12/30/2014		S-1 (12-14) 12/30/2014		S-2 (0-2) 12/30/2014		S-2 (2-4) 12/30/2014		S-3 (0-2) 12/30/2014		S-3 (2-4) 12/30/2014		S-4 (0-2) 12/30/2014		S-4 (12-14) 12/30/2014		S-5 (0-2) 12/30/2014		S-5 (12-14) 12/30/2014			
			Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 List	mg/Kg	mg/Kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Dilution Factor	1	1	1		1		1		1		1		1		1		1		1		1		1	
1,1,1,2-Tetrachloroethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,1,1-Trichloroethane	0.68	100	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,1,2,2-Tetrachloroethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,1,2-Trichloroethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,1-Dichloroethane	0.27	26	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,1-Dichloroethylene	0.33	100	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,1-Dichloropropylene	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,2,3-Trichlorobenzene	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,2,3-Trichloropropane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,2,4-Trichlorobenzene	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,2,4-Trimethylbenzene	3.6	52	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,2-Dibromo-3-chloropropane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,2-Dibromoethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,2-Dichlorobenzene	1.1	100	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,2-Dichloroethane	0.02	3.1	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,2-Dichloropropane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,3,5-Trimethylbenzene	8.4	52	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,3-Dichlorobenzene	2.4	49	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,3-Dichloropropane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,4-Dichlorobenzene	1.8	13	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
1,4-Dioxane	0.1	13	0.057	U	0.052	U	0.059	U	0.059	U	0.043	U	0.043	U	0.047	U	0.051	U	0.056	U	0.053	U	0.053	
2,2-Dichloropropane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
2-Butanone	0.12	100	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
2-Chlorotoluene	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
4-Chlorotoluene	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Acetone	0.05	100	0.0057	U	0.0052	U	0.0059	U	0.010	J	0.0043	U	0.0057	J	0.0047	U	0.0051	U	0.0056	U	0.0053	U	0.0053	
Benzene	0.06	4.8	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Bromobenzene	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Bromochloromethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Bromodichloromethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Bromoforn	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Bromomethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Carbon tetrachloride	0.76	2.4	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Chlorobenzene	1.1	100	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Chloroethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Chloroform	0.37	49	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Chloromethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
cis-1,2-Dichloroethylene	0.25	100	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
cis-1,3-Dichloropropylene	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Dibromochloromethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Dibromomethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Dichlorodifluoromethane	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Ethyl Benzene	1	41	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Hexachlorobutadiene	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Isopropylbenzene	-	-	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Methyl tert-butyl ether (MTBE)	0.93	100	0.0029	U	0.0026	U	0.0030	U	0.0030	U	0.0022	U	0.0022	U	0.0023	U	0.0026	U	0.0028	U	0.0027	U	0.0027	
Methylene chloride	0.05	100	0.0057	U	0.0052	U	0.005																	

Table 1. Soil Sample Analytical Results
Phase II Subsurface Investigation
31-14 38th Avenue
Long Island City, New York

Sample ID Sampling Date	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	S-1 (0-2) 12/30/2014		S-1 (12-14) 12/30/2014		S-2 (0-2) 12/30/2014		S-2 (2-4) 12/30/2014		S-3 (0-2) 12/30/2014		S-3 (2-4) 12/30/2014		S-4 (0-2) 12/30/2014		S-4 (12-14) 12/30/2014		S-5 (0-2) 12/30/2014		S-5 (12-14) 12/30/2014	
			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Semi-Volatiles, 8270 Target List	mg/Kg	mg/Kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Dilution Factor			1		1		1		1		1		1		1		1		1		1	
1,2,4-Trichlorobenzene	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
1,2-Dichlorobenzene	1.1	100	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
1,3-Dichlorobenzene	2.4	49	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
1,4-Dichlorobenzene	1.8	13	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
2,4,5-Trichlorophenol	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
2,4,6-Trichlorophenol	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
2,4-Dichlorophenol	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
2,4-Dimethylphenol	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
2,4-Dinitrophenol	-	-	0.046	U	0.043	U	0.048	U	0.046	U	0.044	U	0.044	U	0.049	U	0.043	U	0.096	U	0.046	U
2,4-Dinitrotoluene	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
2,6-Dinitrotoluene	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
2-Chloronaphthalene	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
2-Chlorophenol	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
2-Methylnaphthalene	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.15	D	0.023	U
2-Methylphenol	0.33	100	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
2-Nitroaniline	-	-	0.046	U	0.043	U	0.048	U	0.046	U	0.044	U	0.044	U	0.049	U	0.043	U	0.096	U	0.046	U
2-Nitrophenol	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
3,4-Methylphenols	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
3,3'-Dichlorobenzidine	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
3-Nitroaniline	-	-	0.046	U	0.043	U	0.048	U	0.046	U	0.044	U	0.044	U	0.049	U	0.043	U	0.096	U	0.046	U
4,6-Dinitro-2-methylphenol	-	-	0.046	U	0.043	U	0.048	U	0.046	U	0.044	U	0.044	U	0.049	U	0.043	U	0.096	U	0.046	U
4-Bromophenyl phenyl ether	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
4-Chloro-3-methylphenol	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
4-Chloroaniline	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
4-Chlorophenyl phenyl ether	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
4-Nitroaniline	-	-	0.046	U	0.043	U	0.048	U	0.046	U	0.044	U	0.044	U	0.049	U	0.043	U	0.096	U	0.046	U
4-Nitrophenol	-	-	0.046	U	0.043	U	0.048	U	0.046	U	0.044	U	0.044	U	0.049	U	0.043	U	0.096	U	0.046	U
Acenaphthene	20	100	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.35	D	0.023	U
Acenaphthylene	100	100	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
Aniline	-	-	0.093	U	0.087	U	0.096	U	0.093	U	0.088	U	0.087	U	0.099	U	0.086	U	0.19	U	0.092	U
Anthracene	100	100	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.70	D	0.023	U
Benzo(a)anthracene	1	1	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.050	U	0.022	U	1.18	D	0.023	U
Benzo(a)pyrene	1	1	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.049	J	0.022	U	0.66	D	0.023	U
Benzo(b)fluoranthene	1	1	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.038	J	0.022	U	0.68	D	0.023	U
Benzo(g,h,i)perylene	100	100	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.043	J	0.022	U	0.53	D	0.023	U
Benzo(k)fluoranthene	0.8	3.9	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.046	J	0.022	U	0.83	D	0.023	U
Benzyl alcohol	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
Benzyl butyl phthalate	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.40	D	0.023	U
Bis(2-chloroethoxy)methane	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
Bis(2-chloroethyl)ether	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
Bis(2-chloroisopropyl)ether	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
Bis(2-ethylhexyl)phthalate	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
Chrysene	1	3.9	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.053	U	0.022	U	2.07	D	0.023	U
Dibenzo(a,h)anthracene	0.33	0.33	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.097	D	0.023	U
Dibenzofuran	7	59	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.15	D	0.023	U
Diethyl phthalate	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
Dimethyl phthalate	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
Di-n-butyl phthalate	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.32	D	0.023	U
Di-n-octyl phthalate	-	-	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
Fluoranthene	100	100	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.034	J	0.022	U	3.44	D	0.023	U
Fluorene	30	100	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.26	D	0.023	U
Hexachlorobenzene	0.33	1.2	0.023	U	0.022	U	0.024	U	0.023	U	0.022	U	0.022	U	0.025	U	0.022	U	0.048	U	0.023	U
Hexachlorobutadiene	-	-	0.023	U	0.022	U	0.024	U	0.023	U												

Table 1. Soil Sample Analytical Results
Phase II Subsurface Investigation
31-14 38th Avenue
Long Island City, New York

Sample ID Sampling Date	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	S-1 (0-2) 12/30/2014		S-1 (12-14) 12/30/2014		S-2 (0-2) 12/30/2014		S-2 (2-4) 12/30/2014		S-3 (0-2) 12/30/2014		S-3 (2-4) 12/30/2014		S-4 (0-2) 12/30/2014		S-4 (12-14) 12/30/2014		S-5 (0-2) 12/30/2014		S-5 (12-14) 12/30/2014	
			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Pesticides, 8081 target list	mg/Kg	mg/Kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Dilution Factor			5		5		5		5		5		5		5		5		5		5	
4,4'-DDD	0.0033	13	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
4,4'-DDE	0.0033	8.9	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
4,4'-DDT	0.0033	7.9	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Aldrin	0.005	0.097	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
alpha-BHC	0.02	0.48	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
alpha-Chlordane	0.094	4.2	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
beta-BHC	0.036	0.36	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Chlordane, total	-	-	0.073	U	0.068	U	0.076	U	0.073	U	0.069	U	0.069	U	0.078	U	0.068	U	0.076	U	0.073	U
delta-BHC	0.04	100	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Dieldrin	0.005	0.2	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Endosulfan I	2.4	24	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Endosulfan II	2.4	24	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Endosulfan sulfate	2.4	24	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Endrin	0.014	11	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Endrin aldehyde	-	-	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Endrin ketone	-	-	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
gamma-BHC (Lindane)	0.1	1.3	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
gamma-Chlordane	-	-	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Heptachlor	0.042	2.1	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Heptachlor epoxide	-	-	0.0018	U	0.0017	U	0.0019	U	0.0018	U	0.0017	U	0.0017	U	0.0020	U	0.0017	U	0.0019	U	0.0018	U
Methoxychlor	-	-	0.0092	U	0.0086	U	0.0094	U	0.0092	U	0.0087	U	0.0086	U	0.0098	U	0.0085	U	0.0095	U	0.0091	U
Toxaphene	-	-	0.093	U	0.087	U	0.096	U	0.093	U	0.088	U	0.087	U	0.099	U	0.086	U	0.096	U	0.092	U
Polychlorinated Biphenyls (PCB)	mg/Kg	mg/Kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Dilution Factor			1		1		1		1		1		1		1		1		1		1	
Aroclor 1016	-	-	0.019	U	0.017	U	0.019	U	0.019	U	0.018	U	0.017	U	0.020	U	0.017	U	0.019	U	0.018	U
Aroclor 1221	-	-	0.019	U	0.017	U	0.019	U	0.019	U	0.018	U	0.017	U	0.020	U	0.017	U	0.019	U	0.018	U
Aroclor 1232	-	-	0.019	U	0.017	U	0.019	U	0.019	U	0.018	U	0.017	U	0.020	U	0.017	U	0.019	U	0.018	U
Aroclor 1242	-	-	0.019	U	0.017	U	0.019	U	0.019	U	0.018	U	0.017	U	0.020	U	0.017	U	0.019	U	0.018	U
Aroclor 1248	-	-	0.019	U	0.017	U	0.019	U	0.019	U	0.018	U	0.017	U	0.020	U	0.017	U	0.019	U	0.018	U
Aroclor 1254	-	-	0.019	U	0.017	U	0.019	U	0.019	U	0.018	U	0.017	U	0.020	U	0.017	U	0.019	U	0.018	U
Aroclor 1260	-	-	0.019	U	0.017	U	0.019	U	0.019	U	0.018	U	0.017	U	0.020	U	0.017	U	0.019	U	0.018	U
Total PCBs	0.1	1	0.019	U	0.017	U	0.019	U	0.019	U	0.018	U	0.017	U	0.020	U	0.017	U	0.019	U	0.018	U
Metals, Target Analyte	mg/Kg	mg/Kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Dilution Factor			1		1		1		1		1		1		1		1		1		1	
Aluminum	-	-	10,800		4,910		12,800		11,100		4,900		5,500		12,000		4,560		16,000		8,880	
Antimony	-	-	0.56	U	0.52	U	0.57	U	0.56	U	0.52	U	0.59	U	0.59	U	0.62	U	1.10	U	0.55	U
Arsenic	13	16	2.63		1.63		2.89		3.04		1.62		2.29		6.04		1.65		16.40		1.72	
Barium	350	400	56.10		39		62.30		70.90		34		53.20		74.10		23.60		433		50.30	
Beryllium	7.2	72	0.11	U	0.10	U	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.10	U	0.12	U	0.11	U
Cadmium	2.5	4.3	0.33	U	0.31	U	0.34	U	0.33	U	0.32	U	0.31	U	0.36	U	0.31	U	0.52	U	0.33	U
Calcium	-	-	1,070		20,300		2,450		1,970		2,690		1,780		2,080		8,220		2,010		14,700	
Chromium	-	-	16.30		35.50		25		12.30		13.70		19		12.40		68.20		14.70		68.20	
Cobalt	-	-	9.74		5.53		10.60		10.80		5.26		6.20		5.32		8.42		7.47		14.90	
Copper	50	270	18.60		14.20		22.20		21.80		16.20		19.40		32.10		11.70		375		74.90	
Iron	-	-	18,300		10,400		21,100		20,400		11,000		14,700		15,700		10,200		43,700		13,700	
Lead	63	400	7.20		2.29		6.86		4.16		7.16		11		156		2.12		648		2.89	
Magnesium	-	-	4,700		11,400		5,670		5,480		2,170		2,270		2,380		3,140		2,900		3,310	
Manganese	1600	2000	454		182		355		429		228		293		204		201		321		321	
Nickel	30	310	18.70		13.60		22.70		23.70		11.60		13.50		14.70		14		43.20		16.80	
Potassium	-	-	1,130		1,510		1,560		1,950		1,060		858		1,510		1,210		1,510		1,210	
Selenium	3.9	180	4.87		2.29		4.82		4.71		2.80		3.25		4.04		8.93		3.34		3.34	
Silver	2	180	0.66	U	0.52	U	0.57	U	0.56	U	0.52	U	0.52	U	0.59	U	0.52	U	0.57	U	0.55	U
Sodium	-	-	96.40		167		101		113		125		193		66.20		142		650		108	
Thallium	-	-	1.11	U	1.04	U	1.14	U	1.11	U	1.05	U	1.05	U	1.18	U	1.03	U	1.15	U	1.11	U
Vanadium	-	-	30.60		17.70		34.70		33.90		18.60		27.70		21.80		64.10	</				

**Table 2. Groundwater Sample Analytical Results
Phase II Subsurface Investigation
31-14 38th Avenue
Long Island City, New York**

Sample ID	NYSDEC TOGS Standards and Guidance Values -	Trip Blank 12/30/2014 Water		GW-1 12/30/2014 Water		GW-2 12/30/2014 Water		GW-3 12/30/2014 Water	
Sampling Date	GA	Result	Q	Result	Q	Result	Q	Result	Q
Client Matrix	ug/L	ug/L		ug/L		ug/L		ug/L	
Compound									
Volatile Organics, 8260 List - Low Level									
Dilution Factor		1		1		5		1	
1,1,1,2-Tetrachloroethane	5	0.20	U	0.20	U	1	U	0.20	U
1,1,1-Trichloroethane	5	0.20	U	0.20	U	1	U	0.20	U
1,1,2,2-Tetrachloroethane	5	0.20	U	0.20	U	1	U	0.20	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	0.20	U	0.20	U	1	U	0.20	U
1,1,2-Trichloroethane	1	0.20	U	0.20	U	1	U	0.20	U
1,1-Dichloroethane	5	0.20	U	0.20	U	1	U	0.20	U
1,1-Dichloroethylene	5	0.20	U	0.20	U	1	U	0.20	U
1,1-Dichloropropylene	5	0.20	U	0.20	U	1	U	0.20	U
1,2,3-Trichlorobenzene	5	0.20	U	0.20	U	1	U	0.20	U
1,2,3-Trichloropropane	0.04	0.20	U	0.20	U	1	U	0.20	U
1,2,4,5-Tetramethylbenzene	~	0.20	U	0.20	U	1	U	0.20	U
1,2,4-Trichlorobenzene	5	0.20	U	0.20	U	1	U	0.20	U
1,2,4-Trimethylbenzene	5	0.20	U	0.20	U	1	U	0.20	U
1,2-Dibromo-3-chloropropane	0.04	0.20	U	0.20	U	1	U	0.20	U
1,2-Dibromoethane	5	0.20	U	0.20	U	1	U	0.20	U
1,2-Dichlorobenzene	3	0.20	U	0.20	U	1	U	0.20	U
1,2-Dichloroethane	0.6	0.20	U	0.20	U	1	U	0.20	U
1,2-Dichloropropane	1	0.20	U	0.20	U	1	U	0.20	U
1,3,5-Trimethylbenzene	5	0.20	U	0.20	U	1	U	0.20	U
1,3-Dichlorobenzene	3	0.20	U	0.20	U	1	U	0.20	U
1,3-Dichloropropane	5	0.20	U	0.20	U	1	U	0.20	U
1,4-Dichlorobenzene	3	0.20	U	0.20	U	1	U	0.20	U
2,2-Dichloropropane	5	0.20	U	0.20	U	1	U	0.20	U
2-Butanone	50	0.20	U	0.20	U	1	U	0.20	U
2-Chlorotoluene	5	0.20	U	0.20	U	1	U	0.20	U
2-Hexanone	50	0.20	U	0.20	U	3.20	D	0.20	U
4-Chlorotoluene	5	0.20	U	0.20	U	1	U	0.20	U
4-Methyl-2-pentanone	~	0.20	U	0.20	U	1	U	0.20	U
Acetone	50	1	U	1	U	5	U	1	U
Benzene	1	0.20	U	0.20	U	1	U	0.20	U
Bromobenzene	5	0.20	U	0.20	U	1	U	0.20	U
Bromochloromethane	5	0.20	U	0.20	U	1	U	0.20	U
Bromodichloromethane	50	0.20	U	0.20	U	1	U	0.20	U
Bromoform	50	0.20	U	0.20	U	1	U	0.20	U
Bromomethane	5	0.20	U	0.20	U	1	U	0.20	U
Carbon disulfide	~	0.20	U	0.20	U	1	U	0.20	U
Carbon tetrachloride	5	0.20	U	0.20	U	1	U	0.20	U
Chlorobenzene	5	0.20	U	0.20	U	1	U	0.20	U
Chloroethane	5	0.20	U	0.20	U	1	U	0.20	U
Chloroform	7	0.20	U	0.69		1	U	0.20	U
Chloromethane	5	0.20	U	0.20	U	1	U	0.20	U
cis-1,2-Dichloroethylene	5	0.20	U	0.20	U	1	U	0.20	U
cis-1,3-Dichloropropylene	0.4	0.20	U	0.20	U	1	U	0.20	U
Dibromochloromethane	50	0.20	U	0.20	U	1	U	0.20	U
Dibromomethane	~	0.20	U	0.20	U	1	U	0.20	U
Dichlorodifluoromethane	5	0.20	U	0.20	U	1	U	0.20	U
Ethyl Benzene	5	0.20	U	0.20	U	1	U	0.20	U
Hexachlorobutadiene	0.5	0.20	U	0.20	U	1	U	0.20	U
Isopropylbenzene	5	0.20	U	0.20	U	1	U	0.20	U
Methyl tert-butyl ether (MTBE)	10	0.20	U	0.20	U	1	U	0.20	U
Methylene chloride	5	1	U	1	U	5	U	1	U
Naphthalene	10	1	U	1	U	5	U	1	U
n-Butylbenzene	5	0.20	U	0.20	U	1	U	0.20	U
n-Propylbenzene	5	0.20	U	0.20	U	1	U	0.20	U
o-Xylene	5	0.20	U	0.20	U	1	U	0.20	U
p- & m- Xylenes	5	0.50	U	0.50	U	2.50	U	0.50	U
p-Diethylbenzene	~	0.20	U	0.20	U	1	U	0.20	U
p-Ethyltoluene	~	0.20	U	0.20	U	1	U	0.20	U
p-Isopropyltoluene	5	0.20	U	0.20	U	1	U	0.20	U
sec-Butylbenzene	5	0.20	U	0.20	U	1	U	0.20	U
Styrene	5	0.20	U	0.20	U	1	U	0.20	U
tert-Butylbenzene	5	0.20	U	0.20	U	1	U	0.20	U
Tetrachloroethylene	5	0.20	U	0.41	J	1	U	0.46	J
Toluene	5	0.20	U	0.20	U	1	U	0.20	U
trans-1,2-Dichloroethylene	5	0.20	U	0.20	U	1	U	0.20	U
trans-1,3-Dichloropropylene	0.4	0.20	U	0.20	U	1	U	0.20	U
Trichloroethylene	5	0.20	U	1.30		1	U	1.80	
Trichlorofluoromethane	5	0.20	U	0.20	U	1	U	0.20	U
Vinyl Chloride	2	0.20	U	0.20	U	1	U	0.20	U
Xylenes, Total	5	0.60	U	0.60	U	3	U	0.60	U

**Table 2. Groundwater Sample Analytical Results
Phase II Subsurface Investigation
31-14 38th Avenue
Long Island City, New York**

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	Trip Blank 12/30/2014 Water		GW-1 12/30/2014 Water		GW-2 12/30/2014 Water		GW-3 12/30/2014 Water	
		Result	Q	Result	Q	Result	Q	Result	Q
Semi-Volatiles, 8270 Target List	ug/L			ug/L		ug/L		ug/L	
Dilution Factor				1		1		1	
1,2,4-Trichlorobenzene	5	NT		3.33	U	4.76	U	3.03	U
1,2-Dichlorobenzene	3	NT		3.33	U	4.76	U	3.03	U
1,3-Dichlorobenzene	3	NT		3.33	U	4.76	U	3.03	U
1,4-Dichlorobenzene	3	NT		3.33	U	4.76	U	3.03	U
2,4,5-Trichlorophenol	1	NT		3.33	U	4.76	U	3.03	U
2,4,6-Trichlorophenol	1	NT		3.33	U	4.76	U	3.03	U
2,4-Dichlorophenol	5	NT		3.33	U	4.76	U	3.03	U
2,4-Dimethylphenol	50	NT		3.33	U	4.76	U	3.03	U
2,4-Dinitrophenol	10	NT		3.33	U	4.76	U	3.03	U
2,4-Dinitrotoluene	5	NT		3.33	U	4.76	U	3.03	U
2,6-Dinitrotoluene	5	NT		3.33	U	4.76	U	3.03	U
2-Chloronaphthalene	10	NT		3.33	U	4.76	U	3.03	U
2-Chlorophenol	1	NT		3.33	U	4.76	U	3.03	U
2-Methylnaphthalene	~	NT		3.33	U	4.76	U	3.03	U
2-Methylphenol	1	NT		3.33	U	4.76	U	3.03	U
2-Nitroaniline	5	NT		3.33	U	4.76	U	3.03	U
2-Nitrophenol	1	NT		3.33	U	4.76	U	3.03	U
3- & 4-Methylphenols	~	NT		3.33	U	4.76	U	3.03	U
3,3'-Dichlorobenzidine	5	NT		3.33	U	4.76	U	3.03	U
3-Nitroaniline	5	NT		3.33	U	4.76	U	3.03	U
4,6-Dinitro-2-methylphenol	~	NT		3.33	U	4.76	U	3.03	U
4-Bromophenyl phenyl ether	~	NT		3.33	U	4.76	U	3.03	U
4-Chloro-3-methylphenol	1	NT		3.33	U	4.76	U	3.03	U
4-Chloroaniline	5	NT		3.33	U	4.76	U	3.03	U
4-Chlorophenyl phenyl ether	~	NT		3.33	U	4.76	U	3.03	U
4-Nitroaniline	5	NT		3.33	U	4.76	U	3.03	U
4-Nitrophenol	1	NT		3.33	U	4.76	U	3.03	U
Acenaphthene	20	NT		0.067	U	0.095	U	0.061	U
Acenaphthylene	~	NT		0.067	U	0.095	U	0.061	U
Aniline	5	NT		3.33	U	4.76	U	3.03	U
Anthracene	50	NT		0.067	U	0.095	U	0.061	U
Benzo(a)anthracene	0.002	NT		0.067	U	0.095	U	0.061	U
Benzo(a)pyrene	0.002	NT		0.067	U	0.095	U	0.061	U
Benzo(b)fluoranthene	0.002	NT		0.067	U	0.095	U	0.061	U
Benzo(g,h,i)perylene	~	NT		0.067	U	0.095	U	0.061	U
Benzo(k)fluoranthene	0.002	NT		0.067	U	0.095	U	0.061	U
Benzyl alcohol	~	NT		3.33	U	4.76	U	3.03	U
Benzyl butyl phthalate	50	NT		3.33	U	4.76	U	3.03	U
Bis(2-chloroethoxy)methane	5	NT		3.33	U	4.76	U	3.03	U
Bis(2-chloroethyl)ether	1	NT		3.33	U	4.76	U	3.03	U
Bis(2-chloroisopropyl)ether	5	NT		3.33	U	4.76	U	3.03	U
Bis(2-ethylhexyl)phthalate	5	NT		2.17	U	1.10	U	1.44	U
Chrysene	0.002	NT		0.067	U	0.095	U	0.061	U
Dibenzo(a,h)anthracene	~	NT		0.067	U	0.095	U	0.061	U
Dibenzofuran	~	NT		3.33	U	4.76	U	3.03	U
Diethyl phthalate	50	NT		3.33	U	4.76	U	3.03	U
Dimethyl phthalate	50	NT		3.33	U	4.76	U	3.03	U
Di-n-butyl phthalate	50	NT		3.33	U	4.76	U	3.03	U
Di-n-octyl phthalate	50	NT		3.33	U	4.76	U	3.03	U
Fluoranthene	50	NT		0.067	U	0.095	U	0.061	U
Fluorene	50	NT		0.067	U	0.095	U	0.061	U
Hexachlorobenzene	0.04	NT		0.027	U	0.038	U	0.024	U
Hexachlorobutadiene	0.5	NT		0.67	U	0.95	U	0.61	U
Hexachlorocyclopentadiene	5	NT		3.33	U	4.76	U	3.03	U
Hexachloroethane	5	NT		0.67	U	0.95	U	0.61	U
Indeno(1,2,3-cd)pyrene	0.002	NT		0.067	U	0.095	U	0.061	U
Isophorone	50	NT		3.33	U	4.76	U	3.03	U
Naphthalene	10	NT		0.067	U	0.095	U	0.061	U
Nitrobenzene	0.4	NT		0.33	U	0.48	U	0.30	U
N-Nitrosodimethylamine	~	NT		0.67	U	0.95	U	0.61	U
N-nitroso-di-n-propylamine	~	NT		3.33	U	4.76	U	3.03	U
N-Nitrosodiphenylamine	50	NT		3.33	U	4.76	U	3.03	U
Pentachlorophenol	1	NT		0.33	U	0.48	U	0.30	U
Phenanthrene	50	NT		0.067	U	0.095	U	0.061	U
Phenol	1	NT		3.33	U	4.76	U	3.03	U
Pyrene	50	NT		0.067	U	0.095	U	0.061	U
Pyridine	50	NT		3.33	U	4.76	U	3.03	U

**Table 2. Groundwater Sample Analytical Results
Phase II Subsurface Investigation
31-14 38th Avenue
Long Island City, New York**

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	Trip Blank 12/30/2014 Water		GW-1 12/30/2014 Water		GW-2 12/30/2014 Water		GW-3 12/30/2014 Water	
		Result	Q	Result	Q	Result	Q	Result	Q
Pesticides, 8081 target list	ug/L			ug/L		ug/L		ug/L	
Dilution Factor				1		1		1	
4,4'-DDD	0.3	NT		0.0057	U	0.0062	U	0.0055	U
4,4'-DDE	0.2	NT		0.0057	U	0.0062	U	0.0055	U
4,4'-DDT	0.2	NT		0.0057	U	0.0062	U	0.0055	U
Aldrin	~	NT		0.0057	U	0.0062	U	0.0055	U
alpha-BHC	0.01	NT		0.0057	U	0.0062	U	0.0055	U
alpha-Chlordane	~	NT		0.0057	U	0.0062	U	0.0055	U
beta-BHC	0.04	NT		0.0057	U	0.0062	U	0.0055	U
Chlordane, total	0.05	NT		0.057	U	0.062	U	0.055	U
delta-BHC	0.04	NT		0.0057	U	0.0062	U	0.0055	U
Dieldrin	0.004	NT		0.0029	U	0.0031	U	0.0028	U
Endosulfan I	~	NT		0.0057	U	0.0062	U	0.0055	U
Endosulfan II	~	NT		0.0057	U	0.0062	U	0.0055	U
Endosulfan sulfate	~	NT		0.0057	U	0.0062	U	0.0055	U
Endrin	~	NT		0.0057	U	0.0062	U	0.0055	U
Endrin aldehyde	5	NT		0.014	U	0.015	U	0.014	U
Endrin ketone	5	NT		0.014	U	0.015	U	0.014	U
gamma-BHC (Lindane)	0.05	NT		0.0057	U	0.0062	U	0.0055	U
gamma-Chlordane	~	NT		0.014	U	0.015	U	0.014	U
Heptachlor	0.04	NT		0.0057	U	0.0062	U	0.0055	U
Heptachlor epoxide	0.03	NT		0.0057	U	0.0062	U	0.0055	U
Methoxychlor	35	NT		0.0057	U	0.0062	U	0.0055	U
Toxaphene	0.06	NT		0.14	U	0.15	U	0.14	U
Polychlorinated Biphenyls (PCB)	ug/L			ug/L		ug/L		ug/L	
Dilution Factor				1		1		1	
Aroclor 1016	~	NT		0.071	U	0.077	U	0.069	U
Aroclor 1221	~	NT		0.071	U	0.077	U	0.069	U
Aroclor 1232	~	NT		0.071	U	0.077	U	0.069	U
Aroclor 1242	~	NT		0.071	U	0.077	U	0.069	U
Aroclor 1248	~	NT		0.071	U	0.077	U	0.069	U
Aroclor 1254	~	NT		0.071	U	0.077	U	0.069	U
Aroclor 1260	~	NT		0.071	U	0.077	U	0.069	U
Total PCBs	0.09	NT		0.071	U	0.077	U	0.069	U
Metals, Dissolved - Target Analyte (TAL)	ug/L			ug/L		ug/L		ug/L	
Dilution Factor				1		1		1	
Aluminum	~	NT		10	U	10	U	10	U
Antimony	3	NT		5	U	5	U	5	U
Arsenic	25	NT		4	U	4	U	4	U
Barium	1000	NT		60		34		112	
Beryllium	3	NT		1	U	1	U	1	U
Cadmium	5	NT		3	U	3	U	3	U
Calcium	~	NT		88,500		111,000		126,000	
Chromium	50	NT		5	U	5	U	5	U
Cobalt	~	NT		5	U	5	U	5	U
Copper	200	NT		3	U	3	U	3	U
Iron	~	NT		20	U	20	U	20	U
Lead	25	NT		3	U	3	U	3	U
Magnesium	35000	NT		48,400		27,800		69,500	
Manganese	300	NT		143		71		393	
Nickel	100	NT		5	U	5	U	6	
Potassium	~	NT		5,420		3,050		7,370	
Selenium	10	NT		10	U	10	U	10	U
Silver	50	NT		5	U	5	U	5	U
Sodium	20000	NT		121,000		49,800		201,000	
Thallium	~	NT		5	U	5	U	5	U
Vanadium	~	NT		10	U	10	U	10	U
Zinc	2000	NT		10	U	10	U	10	U

**Table 2. Groundwater Sample Analytical Results
Phase II Subsurface Investigation
31-14 38th Avenue
Long Island City, New York**

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	Trip Blank 12/30/2014 Water		GW-1 12/30/2014 Water		GW-2 12/30/2014 Water		GW-3 12/30/2014 Water	
		Result	Q	Result	Q	Result	Q	Result	Q
Metals, Target Analyte	ug/L			ug/L		ug/L		ug/L	
Dilution Factor				10		1		10	
Aluminum	~	NT		2,540		60,300		2,050	
Antimony	3	NT		5	U	5	U	5	U
Arsenic	25	NT		4	U	12		4	U
Barium	1000	NT		1,280		3,030		1,440	
Beryllium	3	NT		1	U	14		1	U
Cadmium	5	NT		3	U	8		3	U
Calcium	~	NT		1,380,000	D	767,000		1,370,000	D
Chromium	50	NT		11		37		7	
Cobalt	~	NT		185		176		211	
Copper	200	NT		3	U	203		3	U
Iron	~	NT		4,750		4,080		2,420	
Lead	25	NT		5		13		5	
Magnesium	35000	NT		197,000		195,000		198,000	
Manganese	300	NT		10,200		14,200		14,400	
Nickel	100	NT		129		200		200	
Potassium	~	NT		13,000		14,700		16,200	
Selenium	10	NT		10	U	10	U	12	
Silver	50	NT		5	U	5	U	5	U
Sodium	20000	NT		138,000		65,200		176,000	
Thallium	~	NT		5	U	5	U	5	U
Vanadium	~	NT		10	U	63		10	U
Zinc	2000	NT		73		528		39	
Mercury by 7473	ug/L			ug/L		ug/L		ug/L	
Dilution Factor				1		1		1	
Mercury	0.7	NT		0.20	U	0.20	U	0.20	U
Mercury by 7473, Dissolved	ug/L			ug/L		ug/L		ug/L	
Dilution Factor				1		1		1	
Mercury	0.7	NT		0.20	U	0.20	U	0.20	U

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

~=this indicates that no regulatory limit has been established for this analyte

**Table 3. Soil Vapor Sample Analytical Results
Phase II Subsurface Investigation
31-14 38th Avenue
Long Island City, New York**

Sample ID Sampling Date Matrix	NYSDOH Soil Vapor Intrusion Matrix 1 & 2 Action Levels	SV-1 12/30/2014 Soil Vapor		SV-2 12/30/2014 Soil Vapor		SV-3 12/30/2014 Soil Vapor	
		Result ug/m3	Q	Result ug/m3	Q	Result ug/m3	Q
Compound							
Volatile Organics, EPA TO15 Full List							
Dilution Factor		1		1		7.468	
1,1,1-Trichloroethane	100	0.55	U	0.55	U	4.10	U
1,1,2,2-Tetrachloroethane	NE	0.69	U	0.69	U	5.10	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	0.77	U	0.77	U	5.70	U
1,1,2-Trichloroethane	NE	0.55	U	0.55	U	4.10	U
1,1-Dichloroethane	NE	0.40	U	0.40	U	3	U
1,1-Dichloroethylene	NE	0.40	U	0.40	U	3	U
1,2,4-Trichlorobenzene	NE	0.74	U	0.74	U	5.50	U
1,2,4-Trimethylbenzene	NE	5.60		14		4.80	D
1,2-Dibromoethane	NE	0.77	U	0.77	U	5.70	U
1,2-Dichlorobenzene	NE	0.60	U	0.60	U	4.50	U
1,2-Dichloroethane	NE	0.40	U	0.40	U	3	U
1,2-Dichloropropane	NE	0.46	U	0.46	U	3.50	U
1,2-Dichlorotetrafluoroethane	NE	0.70	U	0.70	U	5.20	U
1,3,5-Trimethylbenzene	NE	1.60		4.10		3.70	U
1,3-Butadiene	NE	0.43	U	4.70		3.20	U
1,3-Dichlorobenzene	NE	0.60	U	0.60	U	4.50	U
1,4-Dichlorobenzene	NE	0.60	U	0.60	U	4.50	U
1,4-Dioxane	NE	0.36	U	0.36	U	2.70	U
2-Butanone	NE	3.40		8.30		4.40	D
2-Hexanone	NE	0.82	U	0.82	U	6.10	U
4-Methyl-2-pentanone	NE	0.41	U	16		3.10	U
Acetone	NE	43		40		300	D
Benzene	NE	6.90		4.50		3.10	D
Benzyl chloride	NE	0.52	U	0.52	U	3.90	U
Bromodichloromethane	NE	0.62	U	0.62	U	4.60	U
Bromoform	NE	1	U	1	U	7.70	U
Bromomethane	NE	0.39	U	0.39	U	2.90	U
Carbon disulfide	NE	0.75		76		40	D
Carbon tetrachloride	5	0.31		0.16	U	1.20	U
Chlorobenzene	NE	0.46	U	0.46	U	3.40	U
Chloroethane	NE	0.26	U	0.26	U	2	U
Chloroform	NE	0.49		0.73		3.60	U
Chloromethane	NE	0.45		0.21	U	1.50	U
cis-1,2-Dichloroethylene	NE	3.10		0.40	U	3	U
cis-1,3-Dichloropropylene	NE	0.45	U	0.45	U	3.40	U
Cyclohexane	NE	7.30		3		15	D
Dibromochloromethane	NE	0.80	U	0.80	U	6	U
Dichlorodifluoromethane	NE	1.90		2		3.70	U
Ethyl acetate	NE	0.72	U	0.72	U	5.40	U
Ethyl Benzene	NE	2.30		12		6.50	D
Hexachlorobutadiene	NE	1.10	U	1.10	U	8	U
Isopropanol	NE	3.10		2.20		3.70	U
Methyl Methacrylate	NE	0.41	U	0.41	U	3.10	U
Methyl tert-butyl ether (MTBE)	NE	0.36	U	0.36	U	2.70	U
Methylene chloride	NE	80		3.60		25	D
n-Heptane	NE	6.90		6.10		4.60	D
n-Hexane	NE	22		7		3.90	D
o-Xylene	NE	3.40		18		6.20	D
p- & m- Xylenes	NE	8.60		45		20	D
p-Ethyltoluene	NE	3.70		13		3.70	D
Propylene	NE	0.17	U	0.17	U	1.30	U
Styrene	NE	0.43	U	0.43	U	3.20	U
Tetrachloroethylene	100	13		25		35	D
Tetrahydrofuran	NE	0.29	U	6.20		2.20	U
Toluene	NE	17		44		11	D
trans-1,2-Dichloroethylene	NE	0.40	U	0.40	U	3	U
trans-1,3-Dichloropropylene	NE	0.45	U	0.45	U	3.40	U
Trichloroethylene	5	1.70		0.91		3.20	D
Trichlorofluoromethane (Freon 11)	NE	1.70		1.90		4.20	U
Vinyl acetate	NE	0.35	U	0.35	U	2.60	U
Vinyl Chloride	NE	0.064	U	0.064	U	0.48	U

NOTES:

ug/m3 = micrograms per cubic meter

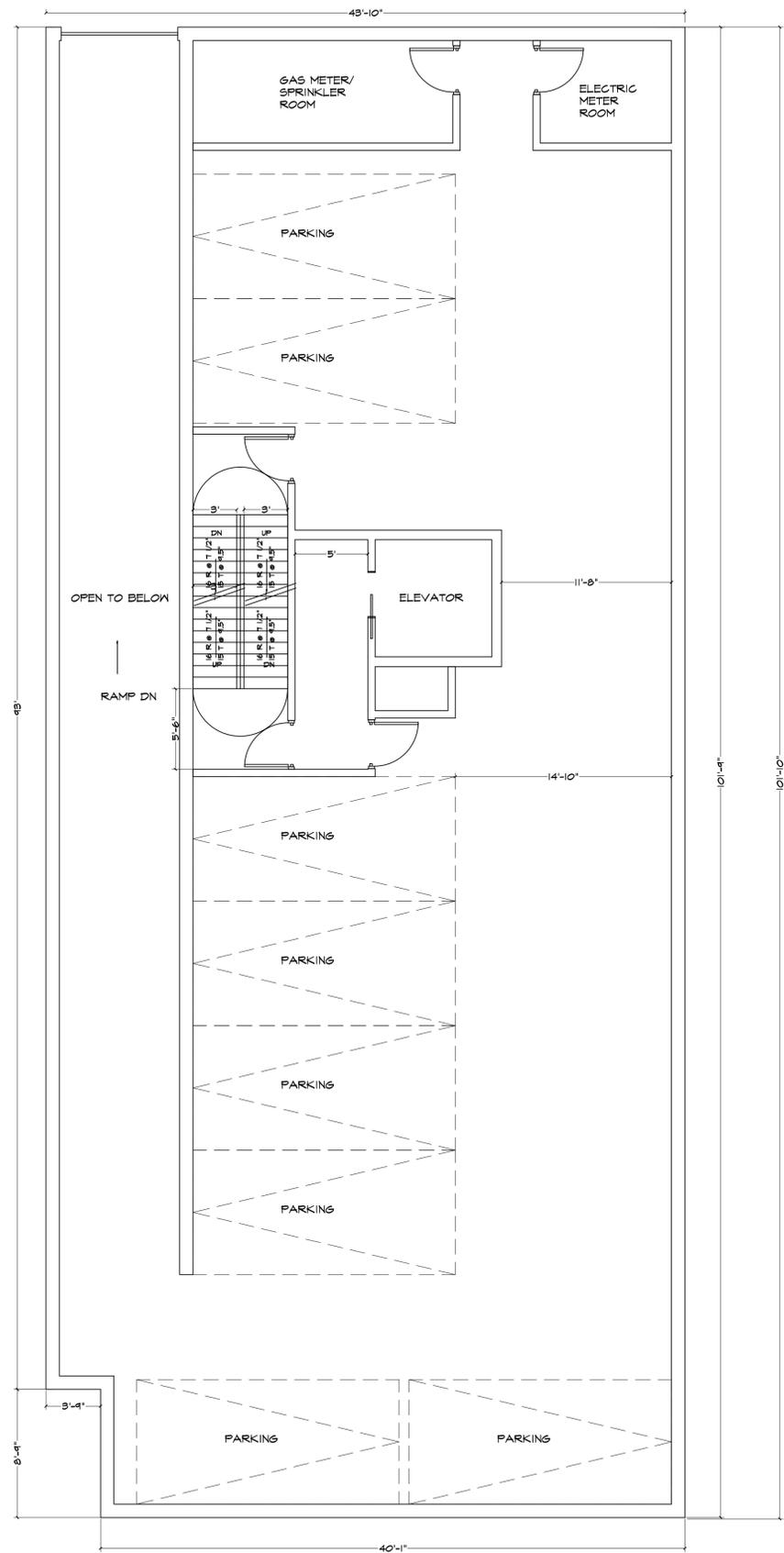
Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

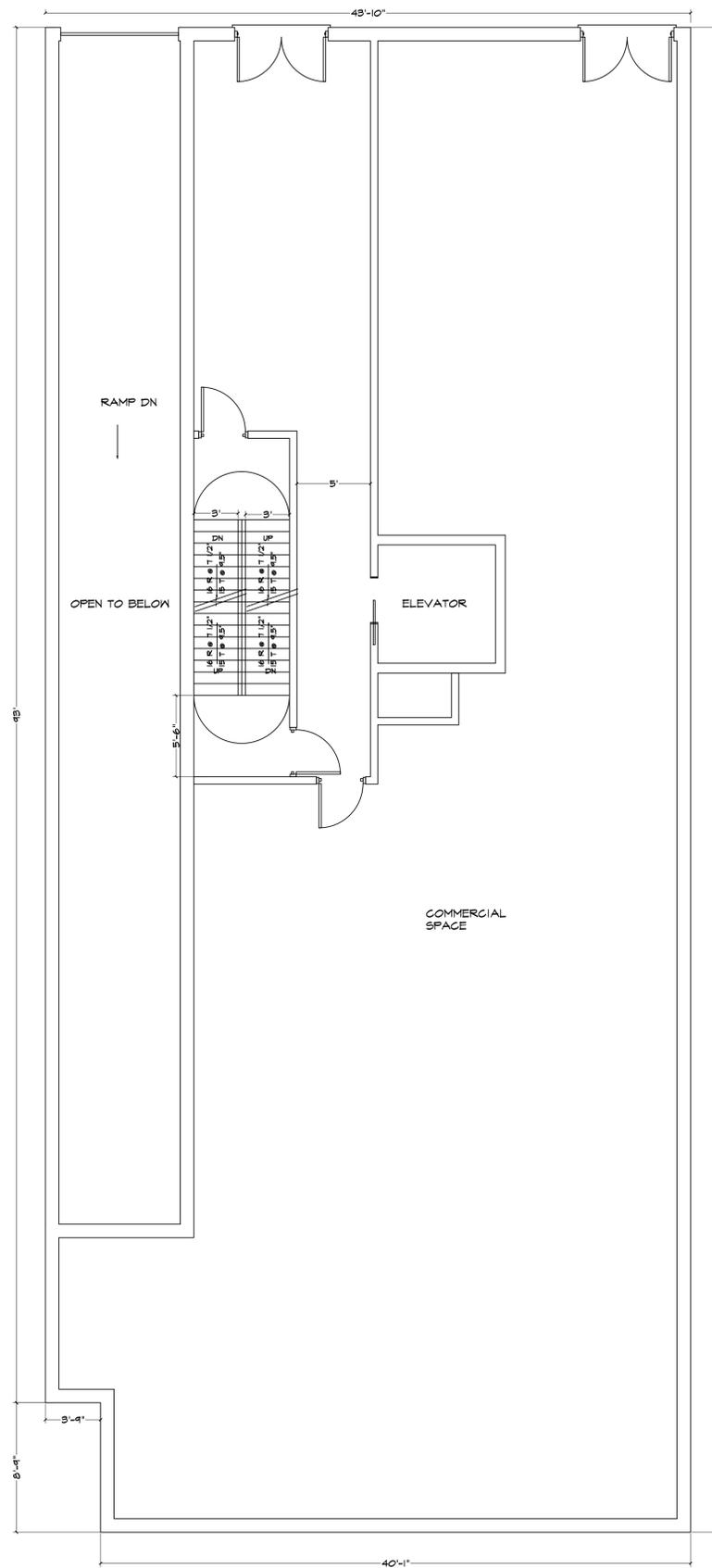
U=analyte not detected at or above the level indicated

Appendix 1

Development Plans



PROPOSED CELLAR PLAN
SCALE: 1/4"=1'



PROPOSED FIRST FLOOR PLAN
SCALE: 1/4"=1'

ARCHITECT
 LAM ENGINEER, P.C.
 48-91 187TH STREET,
 FRESH MEADOWS, NY 11365
 TEL: 718-767-2883
 FAX: 866-338-2060

House No 31-14
 Street Name 38 AVENUE
 Borough QUEENS
 Block 382
 Lot 17
 Bin 4004596
 ZONE R6A/M1-1
 MAP 9B

PROJECT
 31-14 38 AVENUE,
 LONG ISLAND CITY, NY 11101

TITLE
 PROPOSED CEL. & 1ST.
 FLOOR PLAN

NAME (PLEASE PRINT)
 YUK LAM
 (P.E./R.A.) SEAL & SIGNATURE DATE

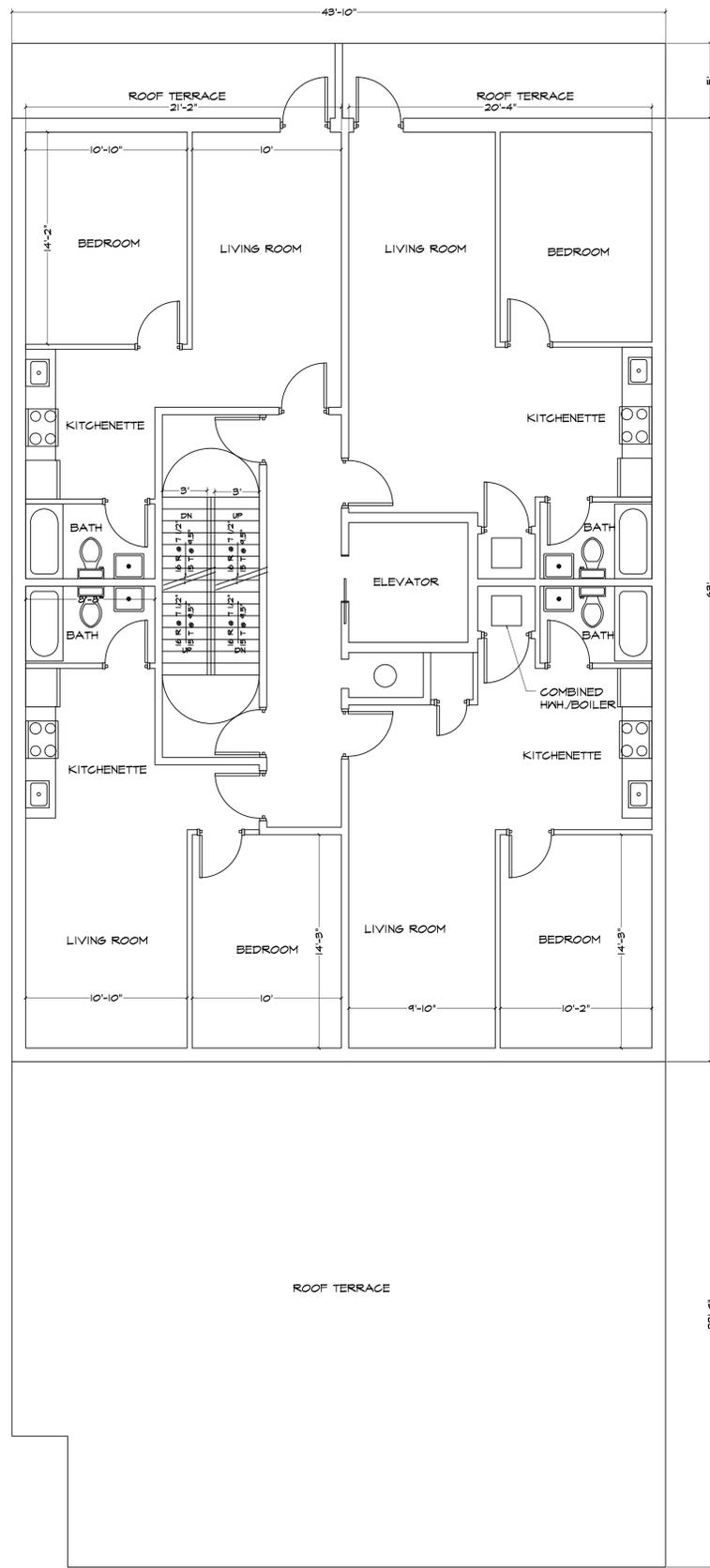


DOB STICKER

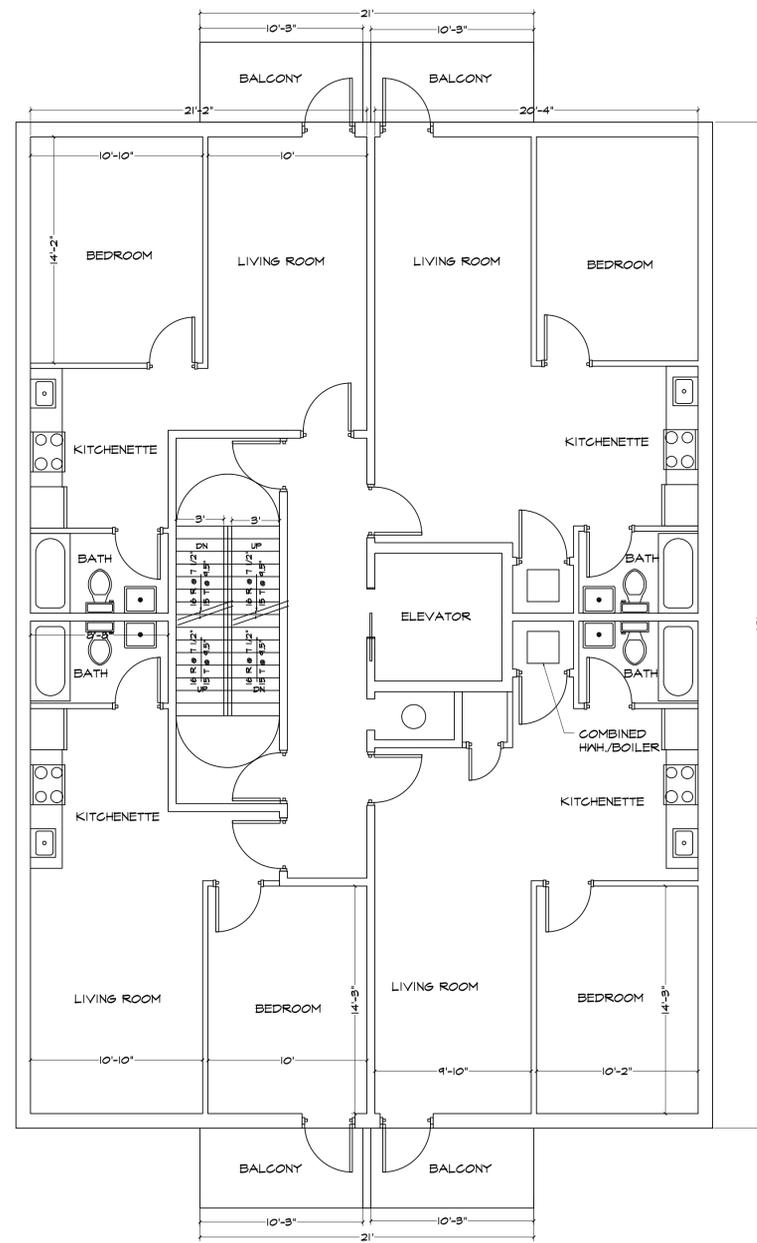
DRAWING NO.
 A-001.00

DATE: 11/24/14
 PROJECT NO: 48217
 DRAWING BY: CL
 CHK BY: YL

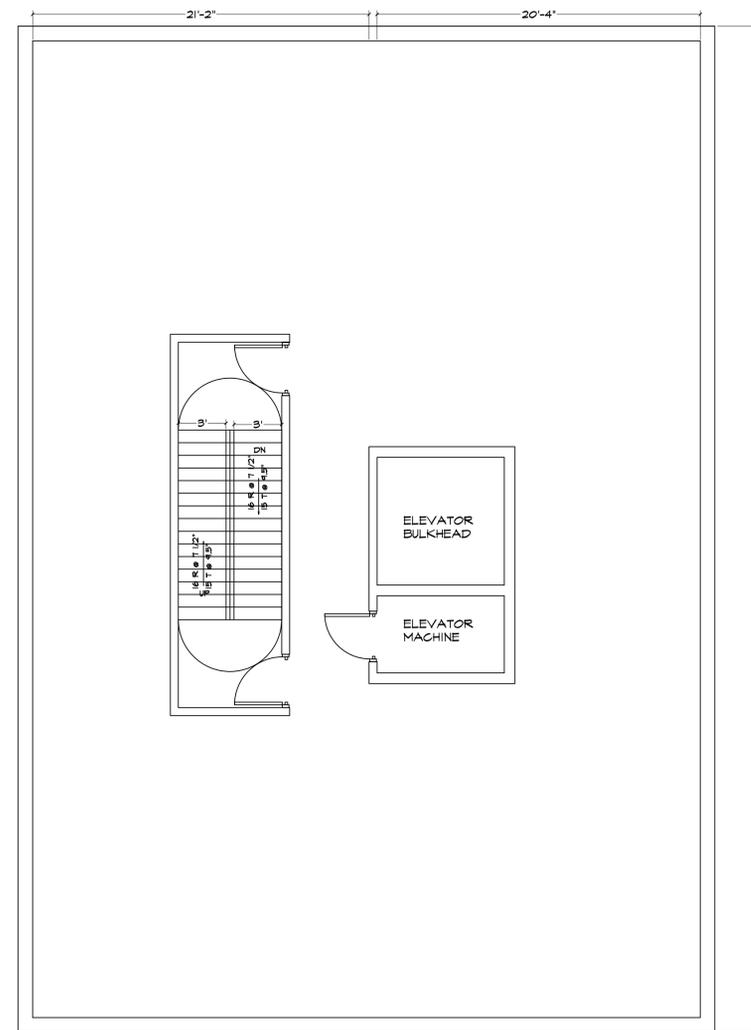
SHEET OF



PROPOSED SECOND FLOOR PLAN
SCALE: 1/4"=1'



PROPOSED THIRD THRU SIXTH FLOOR PLAN
SCALE: 1/4"=1'



ROOF FLOOR PLAN
SCALE: 1/4"=1'

ARCHITECT
LAM ENGINEER, P.C.
48-91 187TH STREET,
FRESH MEADOWS, NY 11365

TEL: 718-767-2883
FAX: 866-338-2060

House No 31-14
Street Name 38 AVENUE
Borough QUEENS
Block 382
Lot 17
Bin 4004596
ZONE R6A/M1-1
MAP 9B

PROJECT

31-14 38 AVENUE,
LONG ISLAND CITY, NY 11101

TITLE

PROPOSED 2ND THRU
6TH FLOOR, & ROOF PLAN

NAME (PLEASE PRINT)
YUK LAM
(P.E./R.A.) SEAL & SIGNATURE DATE



DOB STICKER

DRAWING NO.
A-002.00

DATE: 11/24/14
PROJECT NO: 48217
DRAWING BY: CL
CHK BY: YL

SHEET OF

ARCHITECT
 LAM ENGINEER, P.C.
 48-91 187TH STREET,
 FRESH MEADOWS, NY 11365

TEL: 718-767-2883
 FAX: 866-338-2060

House No 31-14
 Street Name 38 AVENUE
 Borough QUEENS
 Block 382
 Lot 17
 Bin 4004596
 ZONE R6A/M1-1
 MAP 9B

PROJECT

31-14 38 AVENUE,
 LONG ISLAND CITY, NY 11101

TITLE

SECTION

NAME (PLEASE PRINT)

YUK LAM

(P.E./R.A.) SEAL & SIGNATURE

DATE



DOB STICKER

DRAWING NO.

A-003.00

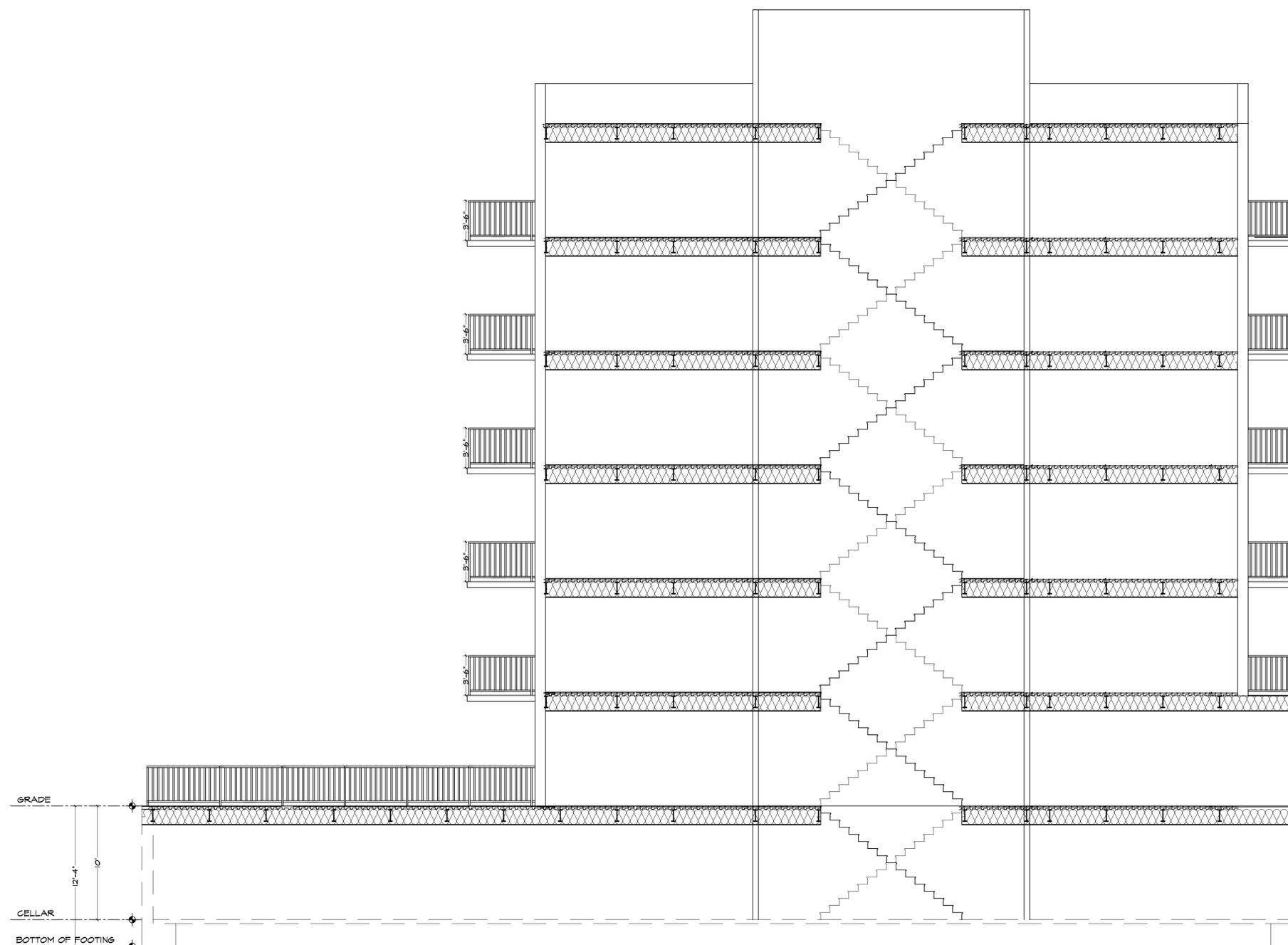
DATE: 11/24/14

PROJECT NO: 48217

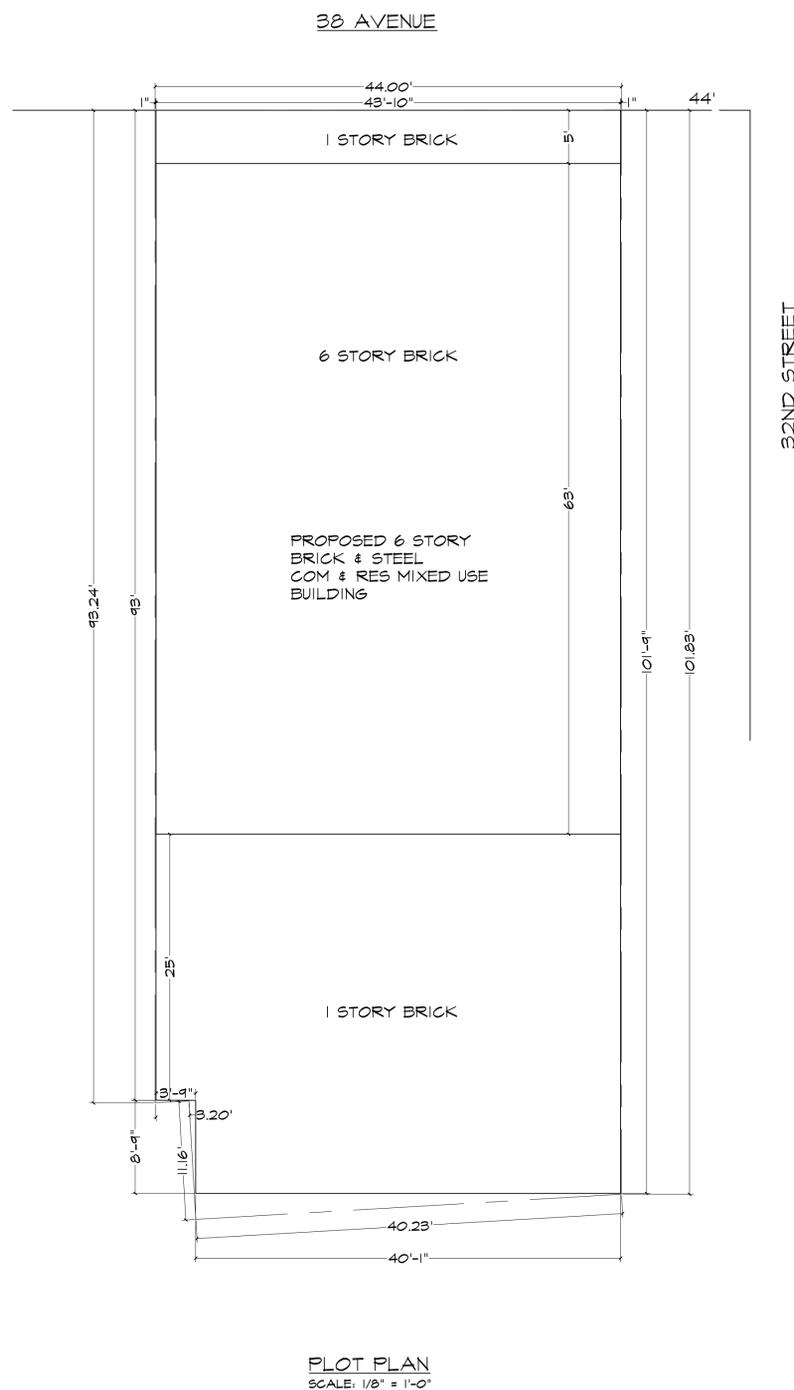
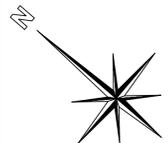
DRAWING BY: CL

CHK BY: YL

SHEET OF



LONGITUDINAL SECTION
 SCALE: 1/4"=1'



ARCHITECT
 LAM ENGINEER, P.C.
 48-91 187TH STREET,
 FRESH MEADOWS, NY 11365
 TEL: 718-767-2883
 FAX: 866-338-2060

House No 31-14
 Street Name 38 AVENUE
 Borough QUEENS
 Block 382
 Lot 17
 Bin 4004596
 ZONE R6A/M1-1
 MAP 9B

PROJECT
 31-14 38 AVENUE,
 LONG ISLAND CITY, NY 11101

TITLE
 ELEVATION & PLOT PLAN

NAME (PLEASE PRINT)
 YUK LAM
 (P.E./R.A.) SEAL & SIGNATURE DATE



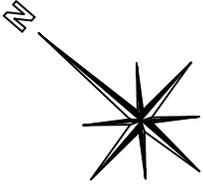
DOB STICKER

DRAWING NO.
 A-004.00

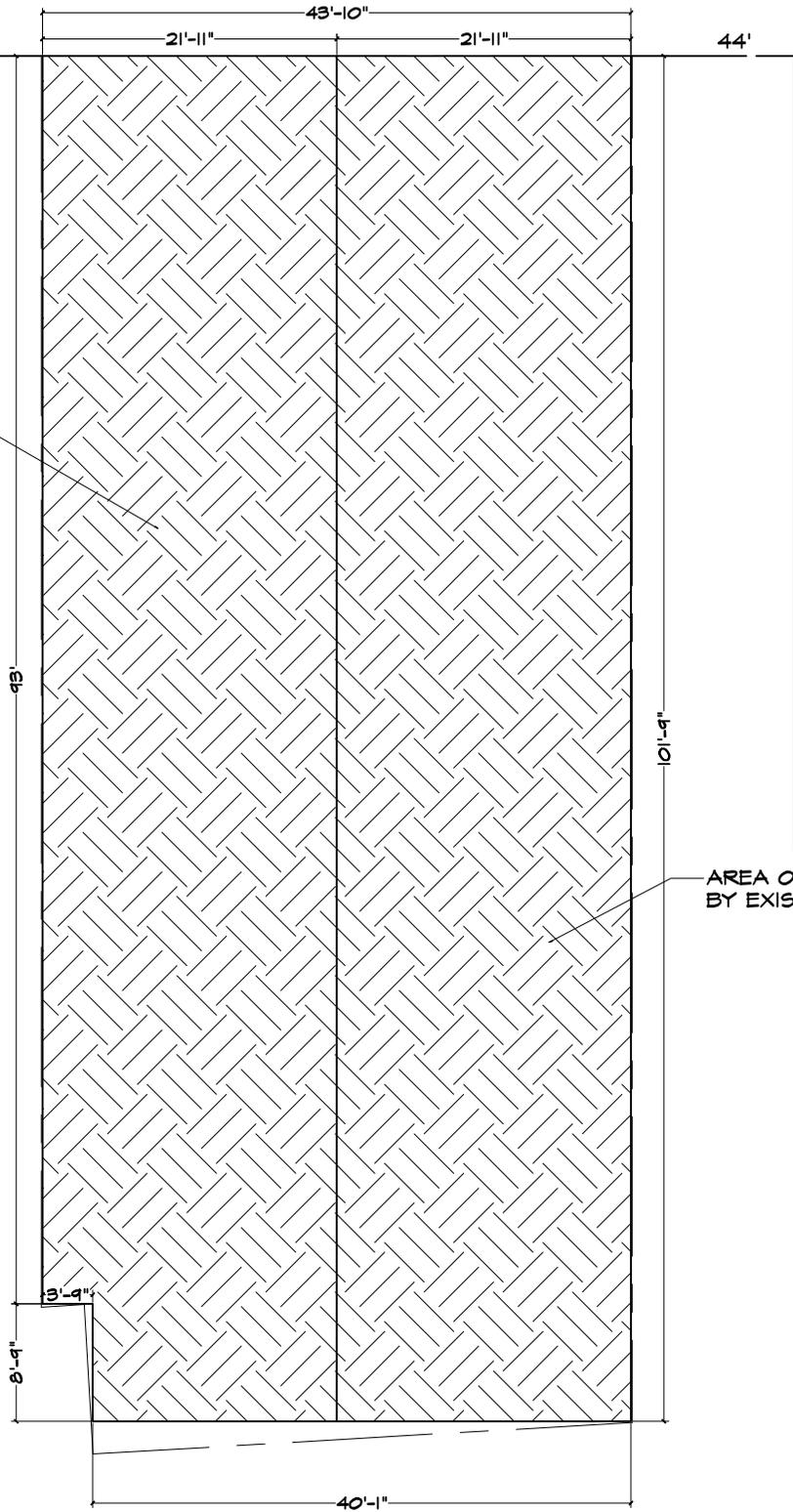
DATE: 11/24/14
 PROJECT NO: 48217
 DRAWING BY: CL
 CHK BY: YL

SHEET OF

38 AVENUE



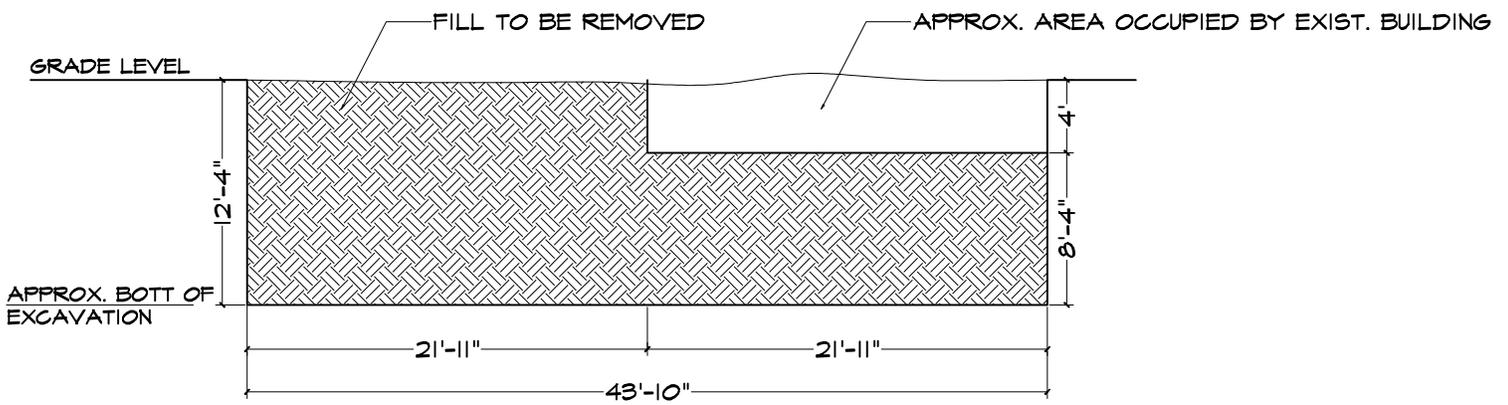
APPROXIMATE
AREA OF FILL
TO BE REMOVED
FOR PROPOSED
FOUNDATION



32ND STREET

AREA OCCUPIED
BY EXIST. BUILDING

EXCAVATION PLAN



CROSS SECTION OF EXCAVATION

APPROX. VOLUME OF FILL TO BE REMOVED
 $= 12.33(21.92' \times 101.75 - 3.75 \times 8.75) + 8.33(101.75' \times 21.92')$
 $= 45,674.66 \text{ CF}$
 OR 1,692 CUBIC YARD

Appendix 2

Phase I Report



77 Arkay Drive, Suite D, Hauppauge, NY 11788
(631) 617-6200, Fax. 631-617-6201

NEW YORK FLORIDA VERMONT

PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA) ASTM E1527-13

**PREPARED IN ACCORDANCE WITH THE
ALL APPROPRIATE INQUIRY (AAI) RULE**

Site Address	31-14 38 th Avenue Long Island City, Queens, New York 11101
Prepared for	Lam Engineer PC 48-91 187 th Street Fresh Meadows, New York 11365 Attn: Mr. Yuk Lam
Prepared By	Merritt Environmental Consulting Corp. 77 Arkay Drive, Suite D Hauppauge, New York 11788 (631) 617-6200 www.merrittec.com
MECC Project No	Project M12146
Inspection Date	November 5, 2014
Summary Date	November 13, 2014
Final Report Date	

1) EXECUTIVE SUMMARY

Merritt Environmental Consulting Corp. (MECC) has completed a Phase I Environmental Site Assessment (ESA) at 31-14 38th Avenue, Long Island City, Queens, New York 11101 (the "Property") in accordance with the scope of work presented in Section 2.2. The report conforms to the ASTM E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

MECC was retained to perform this Phase ESA as an agent for the buyer (Lam Engineer PC) conducting a due diligence evaluation prior to purchasing site.

The on site investigation was conducted on November 5, 2014. The Property currently consists of a 2-story residential and commercial building. The site is located on a plot size approximately 4,480 square feet. The building was constructed in circa 1920.

Based on our site reconnaissance, database review and historical investigation, the following Recognized Environmental Conditions (RECs) were noted at the time of our inspection.

A Recognized Environmental Condition is the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

ITEM

1	At the time of our reconnaissance, suction and return lines were observed entering the boiler room. There appears to be an underground heating oil storage tank (UST) which is no longer in use buried under the driveway. MECC has not been provided with documentation indicating proper removal /abandonment of the tank. This constitutes a Recognized Environmental Condition (REC).
---	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

"E" DESIGNATIONS

The subject property is documented as an "E" designated lot at the NYC Department of Buildings as part of the Dutch Kills Rezoning:

**Lot 17, Taxblock 382
31-14 38th Avenue
Queens, New York 11101
E-No: E-218
Effective Date: 10/07/08
Description: Air Quality - #2 Fuel Oil or Natural Gas Heat and Hot Water, Exhaust stack location limitations, Hazardous Materials* Phase I and Phase II Testing Protocol**

The “E” designations would require that the fee owner of the site conduct a testing and sampling protocol and remediation where appropriate, to the satisfaction of the NYCOER before the issuance of a building permit by the Department of Buildings. Once approval is granted by the NYCOER, the work can be performed in accordance to required regulations in order to receive a notice of satisfaction.

An “E” designation only needs to be complied with during the redevelopment of a site. Part of the “E” designation submittal includes architectural drawings on the proposed development.

The process to remove an “E” designation and receive a notice of satisfaction includes the following:

- Submitting a work plan to the New York City Office of Environmental Remediation (NYCOER)
- Conducting a sub-surface investigation
- Submit results to the NYCOER

The process can take several months and cost approximately \$25,000-\$35,000 to satisfy the requirement for removing an “E” designation. However, the “E” designation is only addressed during the redevelopment of a site.

In addition, the subject site is listed as having an “E” designation for air.

The subject site is currently vacant. All work conducted during the redevelopment of the property needs to be done in accordance with the New York City Office of Environmental Remediation (OER) guidelines in order to receive a Notice of Satisfaction and obtain required building permits in the future.

In addition, no de minimis conditions were noted.

A de minimis condition is one that generally does not present a material risk of harm to public health or the environment and that generally would not be subject of an enforcement action if brought to the attention of appropriate governmental agencies (excluding local asbestos & lead situations).

No Controlled Recognized Environmental Conditions (CRECs) were noted.

A Controlled Recognized Environmental Condition (CREC) is an environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, AULs, institutional controls, or engineering controls).

NON-SCOPE CONSIDERATIONS

There may be environmental issues or conditions at a property that parties may wish to assess in connection with commercial real estate that are outside the scope of this practice (the non-scope considerations). Some substances may be present on a property in quantities and under conditions that may lead to contamination of the property or of nearby properties but are not included in CERCLA's definition of hazardous substances (42 U.S.C. §9601(14) or do not otherwise present potential CERCLA liability. In any case, they are beyond the scope of this practice. There may be standards or protocols for assessment of potential hazards and conditions associated with non-scope conditions developed by governmental entities, professional organizations, or other private entities. Asbestos-Containing Building Materials, Lead-Based Paint, and Radon are several non-scope considerations that persons may want to assess in connection with commercial real estate.

ITEM

1	Based on the age of the building, Asbestos Containing Materials (ACM) and Lead Based Paint (LBP) are assumed to be present. Since the building is vacant, it is recommended that any potential ACM, LBP and /or mold be addressed during any future redevelopment of the property in accordance with applicable regulations.
---	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

MECC has not conducted an asbestos, lead based paint or mold evaluation as these items are considered beyond the scope of the ASTM E1527-13 standard. Should the purchaser of the property need these issues addressed, they should retain reputable firms to provide this additional service.

No Historical Recognized Environmental Conditions (HRECs) were reported. In addition no evidence of HRECs were observed during our on-site inspection/ identified in our database search/historical review.

A Historical Recognized Environmental Condition (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority, or meets unrestricted use criteria established by a regulatory authority without subjecting the property to any required controls.

DATA GAPS

A data gap is a lack of or inability to obtain information required by the ASTM E 1527 standard, despite good faith efforts. Data gaps may result from incompleteness in any of the activities required in this practice, including, but not limited to site reconnaissance and interviews.

Based on our reconnaissance, historical searches and documentation reviewed, the following data gaps were identified:

- We are researching the New York City Health Department and Fire Department records for any information of hazardous operations including, past spills, leaks or violations. The information has not yet been received. We will forward any information that appears to impact the scope of this assessment. We anticipate a response within 30-60 days.

This is a preliminary summary based on field observations as well as initial information received by MECC. Additional documentation may be forthcoming from a variety of sources which may alter the findings in our final report. MECC anticipates the completion and final delivery of the report in the next 2-3 business days. Please advise if any additional documentation will be forwarded or if we should keep the report in our office until further notice.

In the event that additional documentation is received subsequent to completion of the final report, any information that impacts the findings of our report will be forwarded to the Client in the form of an addendum.

TABLE OF CONTENTS

1) EXECUTIVE SUMMARY 1

2) INTRODUCTION 7

 2.1 PURPOSE8

 2.2 SCOPE OF WORK8

 2.3 SIGNIFICANT ASSUMPTIONS8

 2.4 LIMITATIONS AND EXCEPTIONS.....9

 2.5 SPECIAL TERMS AND CONDITIONS9

 2.6 RELIANCE.....9

3) SITE DESCRIPTION 10

 3.1 LOCATION AND LEGAL DESCRIPTION10

 3.2 SITE AND VICINITY GENERAL CHARACTERISTICS10

 3.3 CURRENT USE OF THE PROPERTIES.....10

 3.4 DESCRIPTIONS OF STRUCTURES, ROADS AND OTHER IMPROVEMENTS.....10

 3.5 CURRENT USES OF THE ADJOINING PROPERTIES11

4) USER PROVIDED INFORMATION..... 12

 4.1 TITLE RECORDS12

 4.2 ENVIRONMENTAL LIENS.....12

 4.3 SPECIALIZED KNOWLEDGE13

 4.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION.....13

 4.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES.....13

 4.6 OWNER, PROPERTY MANAGER AND OCCUPANT INFORMATION.....13

 4.8 OTHER/ADDITIONAL INFORMATION PROVIDED13

5) RECORDS REVIEW 14

 5.1 STANDARD ENVIRONMENTAL RECORD SOURCES14

 5.2 ADDITIONAL RESOURCES SEARCHED.....21

 5.3 PHYSICAL SETTING SOURCES.....22

 5.4 HISTORICAL USE INFORMATION ON THE PROPERTY.....23

 5.5 HISTORICAL USE INFORMATION ON ADJOINING PROPERTIES24

6) SITE RECONNAISSANCE..... 25

6.1 METHODOLOGY AND LIMITING CONDITIONS	25
6.2 GENERAL SITE SETTING	25
6.3 EXTERIOR OBSERVATIONS	25
6.4 INTERIOR OBSERVATIONS	25
6.5 UNDERGROUND STORAGE TANKS (UST) AND DRUMS.....	26
6.6 ABOVEGROUND STORAGE TANKS (AST).....	26
6.7 ELECTRICAL TRANSFORMERS (PCBs)	27
6.8 NATURAL GAS	27
6.9 VAPOR ENCROACHMENT.....	28
6.10 NON-SCOPE ASTM CONSIDERATIONS	29
7) INTERVIEWS.....	33
7.1 INTERVIEW WITH OWNER	33
7.2 INTERVIEW WITH SITE REPRESENTATIVE.....	33
7.3 INTERVIEWS WITH OCCUPANTS (TENANTS).....	33
7.4 INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS.....	33
7.5 INTERVIEWS WITH OTHERS	34
8) REPORT FINDINGS.....	35
9) OPINIONS	35
10) CONCLUSION.....	35
11) DEVIATIONS	35
12) ADDITIONAL SERVICES.....	35
13) REFERENCES	35
14) SIGNATURE OF ENVIRONMENTAL PROFESSIONAL.....	36
15) QUALIFICATIONS	36
APPENDICES.....	37

2) INTRODUCTION

2.1 PURPOSE

The report was prepared by Merritt Environmental Consulting Corp., whose purpose is to provide comprehensive Phase I Environmental Site Assessments (ESA) in accordance with ASTM E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

2.2 SCOPE OF WORK

For the Phase I Environmental Site Assessment (ESA), Merritt Environmental Consulting Corp. performed the following primary tasks:

1. *Physical site inspection by Environmental Professionals (EPs) who traversed the interior and exterior areas of the site by foot, in addition to conducting a review of adjacent areas and their exteriors.*
2. *Investigations of historical usage of site based upon:*
 - a. *Interview of persons knowledgeable about the sites current and past usage.*
 - b. *Review of historical Sanborn fire insurance maps*
 - c. *Review of USGS geologic and 7.5 Minute Topographical Maps.*
 - d. *Review of aerial photographs*
 - e. *Review of city directories*
3. *Review of the federal and state environmental databases as per ASTM E1527-13 guidelines, as well as a review of pertinent information provided by local government records.*
4. *Visual inspection of site for the presence of electrical transformers that may contain polychlorinated biphenyl (PCBs).*
5. *Visual inspection of water supply, gas supply, garbage disposal practices, storm and sanitary discharge methods.*
6. *Visual inspection for petroleum storage tanks, above and below grade, stored on site.*
7. *Unless provided with a Client/Lender Scope of Work (SOW) prior to inspection, no other items have been included.*

2.3 SIGNIFICANT ASSUMPTIONS

Information and records provided by the client and outside vendors retained by Merritt Environmental Consulting Corp. are assumed to be correct and complete.

2.4 LIMITATIONS AND EXCEPTIONS

The contents of this report are correct to our knowledge and belief. This report and conclusions stated herein are, however, limited to actual knowledge based upon a visual inspection of the Property, the examination of readily available public records concerning the current and prior use of the Property, and interviews with individuals knowledgeable about present and past property uses.

Merritt Environmental Consulting Corp. has performed this Phase I Environmental Site Assessment (ESA) of the Property in accordance with the detailed scope of work in section 2.2.

Merritt Environmental Consulting Corp. cannot guarantee that the “Property” is completely free of hazardous substances or other materials or conditions that could subject the Client to potential liability. The presence or absence of any such condition can only be confirmed through the collection and analysis of soil and groundwater samples, as well as through testing building materials that may contain asbestos or lead paint. This is beyond the scope of the investigation.

Merritt Environmental Consulting Corp. has no interest other than professional in this Assessment and neither its performance, nor compensation for same, is contingent upon the findings and recommendations that are represented herein.

Transfer Property Acts

Many states have enacted property transfer laws that require notification of environmental conditions to a buyer. This ESA is not designed to meet those parameters or determine if a transfer act applies to the subject site

2.5 SPECIAL TERMS AND CONDITIONS

There are no special terms or conditions to the content of the report that are in addition to the scope outlined in Section 2.2.

2.6 RELIANCE

This Phase I Assessment was performed at the client’s request utilizing methods and procedures that are consistent with acceptable professional standards ASTM-E1527-13.

The report has been prepared for the sole use of MECC’s client. No other party may use the report without the written authority of MECC.

3) SITE DESCRIPTION

3.1 LOCATION AND LEGAL DESCRIPTION

The Property address is 31-14 38th Avenue. The legal site address is Block 382, Lot 17. The site is located in the Long Island City section of Queens, New York.

3.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The current site is situated on a plot size 4,480 square feet.

The current structure was built in circa 1920.

The weather conditions during our on-site inspection consisted of rain. The temperature was approximately 47°.

3.3 CURRENT USE OF THE PROPERTIES

The current use of the Property consists of two (2) residential units and two (2) commercial units. One (1) commercial unit consists of the owner's office which is located in the basement. In addition, the adjacent Tire Company rents the two (2) garage and side parking area.

3.4 DESCRIPTIONS OF STRUCTURES, ROADS AND OTHER IMPROVEMENTS

- A. The Property consists of a vacant 2-story residential and commercial building with an occupied detached two (2) car garage and a side parking lot housing 4-6 cars. The site is located on a plot size approximately 4,480 square feet (building size is approximately 1,844 square feet). There is a basement which houses the boiler room as well as other utilities. There are no basements or subbasements underneath the detached garage.
- B. The Property is located on the south side of 38th Avenue between the corners of 31st Street and 32nd Street.
- C. The heating system for the Property is located in the basement and is supplied by an oil fired heating system.

D. STORM AND SANITARY DISCHARGE

On-site sanitary systems such as cesspools /septic tanks are not designed to carry liquids and solids away from the property like municipal sewer systems. They are designed to hold liquids and solids in a constricted structure (septic tank) or leach out into subsurface soils (cesspools). In addition, many on-site sanitary designs include overflow pools to handle the additional liquid /solids when the primary pool reaches capacity. Contaminants have a greater ability to collect in these structures and adversely impact their soils than a municipal sewer system.

FINDINGS

There are no on-site sanitary services such as cesspools or septic tanks located on the Property. The sanitary discharge for this building /these buildings empties into the New York City sewer system located under 38th Avenue.

E. WATER SUPPLY

The domestic water is supplied by New York City through aqueducts from upstate reservoirs. There are no private groundwater wells servicing this property.

No testing of the water was conducted under this scope.

F. GARBAGE DISPOSAL

The site currently has no sanitation services.

3.5 CURRENT USES OF THE ADJOINING PROPERTIES

ASTM defines adjoining properties as any real property or properties the border of which is contiguous or partially contiguous with that of the Property but for a street, road, or other public thoroughfare separating them.

Contamination originating at adjacent sites has the potential to impact the Property via groundwater flow and vapor encroachment. The current uses of the adjacent properties are as follows:

North	38 th Avenue /Auto Body Repair Shop <u>(31-01 38th Avenue)</u>
South	<u>Residential building (38-14 32nd Street)</u>
East	<u>2-story commercial building (31-18 38th Avenue)</u>
West	<u>1-story Tire Repair Shop (31-06 38th Avenue)</u>

This area of Queens has been observed to be generally residential and commercial in nature. The current uses of the adjoining sites **indicate /do not indicate Recognized Environmental Conditions (RECs) in connection with the Property at this time.**

4) USER PROVIDED INFORMATION

The “user” is the party seeking to use Practice E1527 to complete an environmental site assessment, a potential purchaser of the property, a potential tenant of property, an owner of property, a lender or property manager. The user has specific obligations for completing a successful application of this practice.

According to the ASTM E1527-13 Standard, in order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the “Brownfields Amendments”), the user must provide the following information (if available) to the Environmental Professional. Failure to provide this information could result in a determination that “all appropriate inquiry” is not complete.

A user questionnaire was forwarded to Mr. Yuk Yam on October 24, 2014. The information received has been included in this section and throughout the report (See Appendix A).

Reasonably ascertainable recorded land title records and lien records that are filed under federal, tribal, state, or local law should be reviewed to identify environmental liens or activity and use limitations, if any, that are currently recorded against the property. Environmental liens and activity and use limitations that are imposed by judicial authorities may be recorded or filed in judicial records, and, where applicable, such records should be reviewed.

4.1 TITLE RECORDS

Recorded land title records are records of historical fee ownership which may include leases, land contracts and Activity and Use Limitations (AULs) on or of the Property recorded in a place where land title records are, by law or custom, recorded for the local jurisdiction in which the Property is located.

No title records were provided.

4.2 ENVIRONMENTAL LIENS

No information regarding environmental liens and/or Activity and Use Limitations (AULs) has been provided to MECC by the user. According to the questionnaire, the user is not aware of any Environmental Liens, or AULs associated with the property (See Appendix A).

MECC has retained Environmental Data Resources (EDR) to conduct an Environmental Lien Search on the site. No environmental liens were indicated (See Appendix A).

4.3 SPECIALIZED KNOWLEDGE

Users must take into account their specialized knowledge to identify conditions indicative of releases or threatened releases. If the user has any specialized knowledge or experience that is material to Recognized Environmental Conditions (RECs) in connection with the property, the user should communicate any information based on such knowledge or experience.

No information regarding specialized knowledge was provided.

4.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

As per the ASTM E1527-13 standard, commonly known or reasonably ascertainable information within the local community about the Property must be taken into account by the user. If the user is aware of any such information about the Property, that is material to recognized environmental conditions in connection with the Property, the user should communicate this information to the Environmental Professional (MECC).

No commonly known or reasonably ascertainable information regarding the Property has been provided to MECC.

4.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

In a transaction involving the purchase of commercial real estate the user shall consider the relationship of the purchase price of the property to the fair market value of the property if the property was not affected by hazardous substances or petroleum products. This practice does not require that a real estate appraisal be obtained in order to ascertain fair market value of the property. The user must gather such information to the extent necessary to identify conditions indicative of releases or threatened releases of hazardous substances or petroleum products.

No information regarding the valuation reduction for environmental issues was provided by the user.

4.6 OWNER, PROPERTY MANAGER AND OCCUPANT INFORMATION

The current owner of the site is Paulovich Realty Corp.

The current use of the Property consists of two (2) residential units and two (2) commercial units. One (1) commercial unit consists of the owner's office which is located in the basement. In addition, the adjacent Tire Company rents the two (2) garage and side parking area.

4.8 OTHER/ADDITIONAL INFORMATION PROVIDED

A. No additional information was provided.

B. A prior Phase I Report was conducted on ____ by _____.

5) RECORDS REVIEW

5.1 STANDARD ENVIRONMENTAL RECORD SOURCES

The federal government and New York State have compiled database lists of contaminated, potentially hazardous and regulated sites that may impact the subject property. Environmental Data Resources (EDR) has provided this information to Merritt Environmental Consulting Corp. (MECC).

5.1A DATABASE SEARCHES

The following Federal and State databases were provided to Merritt Environmental Consulting Corp. (MECC) on November 12, 2014. MECC has reviewed the following databases, with the corresponding distance.

FINDINGS

The closest 15 sites have been included in Appendix A.

Due to the density of the area, several of the site printouts have been omitted from the report.

FEDERAL

Database	Radius Searched	Last Updated
1. Federal National Priority List	1 Mile	10/25/13
2. Federal Delisted National Priority List	½ Mile	10/25/13
3. Federal CERCLIS list	½ Mile	10/25/13
4. Federal CERCLIS NFRAP list	½ Mile	06/10/14
5. Federal RCRA CORRACTS facilities list	½ Mile	06/10/14
6. Federal RCRA TSD facilities list	½ Mile	06/10/14
7. Federal RCRA generators list	Property & Adjacent Sites	06/10/14
8. Federal Institutional/ Engineering Control list	Property	09/18/14
9. Federal ERNS list	Property	09/30/14

National Priority List (NPL) - list compiled by EPA pursuant to CERCLA 42 USC 9605(a)(8)(B) of properties with the highest priority for cleanup pursuant to EPA's Hazard Ranking System.

Findings: No sites located within a 1-mile radius.

Delisted National Priority List (NPL): National Priority List Deletions: The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Findings: No sites located within a ½ -mile radius.

Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) - the list of sites compiled by EPA that EPA has investigated or is currently investigating for potential hazardous substance contamination for possible inclusion on the National Priorities List.

Findings: No sites located within a ½ -mile radius.

CERCLIS No Further Remedial Action Planned (CERCLIS NFRAP) - Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Findings: No sites located within a ½-mile radius.

Federal RCRA CORRACTS facilities list-CORRACTS: Corrective Action Report. CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Findings: 1 site located within a ½-mile radius.

Resource Conservation Recovery Act (RCRA) Treatment Storage Disposal (TSD) facilities - those facilities on which treatment, storage, and/or disposal of hazardous wastes takes place, as defined and regulated by RCRA. Inclusion on the RCRA TSD list does not imply contamination has occurred at the site.

Findings: No sites located within a ½-mile radius.

Resource Conservation Recovery Act (RCRA) generators list - list kept by EPA of those persons or entities that generate hazardous wastes as defined and regulated by RCRA. Inclusion on the RCRA list does not imply contamination has occurred at the site.

Findings: No generators listed at property.
14 generators listed within a ¼-mile radius.

Federal Engineering and Institutional Controls – properties where engineering controls have been placed to mitigate contaminant migration/and or to reduce the potential of human exposure to contaminants; institutional controls typically consist of property use restrictions as recorded on deed notices.

Findings: Site not listed.

Emergency Response Notification System (ERNS) list - list of reported CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity, as maintained at the National Response Center. Notification requirements for such releases or spills are codified in 40 CFR Parts 302 & 355.

Findings: Site not listed.

STATE, TRIBAL, AND LOCAL RECORDS

	Database	Radius Searched	Last Updated
1.	State lists of Hazardous Waste Sites	1 Mile	07/16/14
2.	State landfill/solid waste site lists	½ Mile	07/08/14
3.	State leaking tank lists (LTANKS) /State Spills	½ Mile ⅛ Mile	05/19/14 05/19/14
4.	State Voluntary Cleanup Sites	½ Mile	07/16/14
5.	State Brownfield Sites	½ Mile	07/16/14
6.	State registered tanks	¼ Mile	07/01/14
7.	State Institutional/ Engineering control lists	Property & Adjacent Sites	07/16/14
8.	Indian Reservation	1 Mile	12/31/05
9.	Indian LUST	½ Mile	N/A
10.	Indian UST	¼ Mile	N/A
11.	Indian VCP	½ Mile	N/A

State Hazardous Waste Sites (SHWS) - the New York State Department of Environmental Conservation (NYSDEC) lists the contaminated sites throughout the State. This is the state equivalent to the federal National Priority List.

Findings: 13 sites located within a 1-mile radius.

Solid Waste Disposal Site - any place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term landfill and is also known as a garbage dump, trash dump or by similar terms.

Findings: 1 site located within a ½-mile radius.

Spill Logs/LTANKS list – New York State Department of Environmental Conservation (NYSDEC) has a computerized list of spills that have occurred as of 1986, including the present status of the sites. In addition, the leaking tank (LTANKS) database was also reviewed for reported incidents in the area.

Findings: 45 LTANKS located within a ½-mile radius.

19 NY Spills located within a 1/8-mile radius.

VCP: Voluntary Cleanup Agreements New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Findings: 3 sites located within a ½-mile radius.

Brownfields: Brownfields Site List A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Findings: 3 sites located within a ½-mile radius.

State registered tanks - state lists of storage tanks required to be registered under Subtitle I. Section 9002 of RCRA.

Findings: No registered tanks located on site.
67 registered tank sites located within a 1/4-mile radius.

E Designation - According to a NYCDOB memorandum (12/23/03), "E" designated lots are amendments to the New York City Zoning Maps that may include environmental designations of certain tax lots that have physical or historical evidence of uses related to hazardous materials. Zoning Resolution 11-15 provides that the Department of Buildings may not issue a building permit for work on a tax lot labeled "E", until the Department of Buildings is provided with a report from the Department of Environmental Protection stating that the environmental requirements for the lot have been met.

Findings: **Site is listed**

**Lot 17, Taxblock 382
31-14 38th Avenue
Queens, New York 11101
E-No: E-218
Effective Date: 10/07/08
Description: Air Quality - #2 Fuel Oil or Natural Gas Heat and Hot Water, Exhaust stack location limitations, Hazardous Materials* Phase I and Phase II Testing Protocol**

The “E” designations would require that the fee owner of the site conduct a testing and sampling protocol and remediation where appropriate, to the satisfaction of the NYCOER before the issuance of a building permit by the Department of Buildings. Once approval is granted by the NYCOER, the work can be performed in accordance to required regulations in order to receive a notice of satisfaction.

An “E” designation only needs to be complied with during the redevelopment of a site. Part of the “E” designation submittal includes architectural drawings on the proposed development.

The process to remove an “E” designation and receive a notice of satisfaction includes the following:

- Submitting a work plan to the New York City Office of Environmental Remediation (NYCOER)
- Conducting a sub-surface investigation
- Submit results to the NYCOER

The process can take several months and cost approximately \$25,000-\$35,000 to satisfy the requirement for removing an “E” designation. However, the “E” designation is only addressed during the redevelopment of a site.

In addition, the subject site is listed as having an “E” designation for noise /air. The process for receiving a notice of satisfaction from the NYCOER may include the following:

- Submitting a work plan to the NYC Office of Environmental Remediation (OER) to monitor levels of noise within the building and provide results to the NYCOER
- Upgrade windows to provide more sound absorption
- Retrofit A/C with noise reduction sleeves

MECC has not been informed of the future usage of the site. Therefore, we cannot comment on the time frame in which the “E” designation would need to be addressed.

State Engineering and Institutional Controls: Registry of Engineering Controls Environmental Remediation sites that have engineering controls in place. Registry of Institutional Controls Environmental Remediation sites that have institutional controls in place.

Findings: Neither the site nor any property adjoining the site are listed.

Indian Reservation: Indian Reservations This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Findings: No sites located within a 1-mile radius.

Indian LUST: Leaking Underground Storage Tanks on Indian Land. A listing of leaking underground storage tank locations on Indian Land. MECC has been informed that records regarding this database were not made available to EDR for all EPA Regions, including 2 and 3.

Findings: No sites located within a ½-mile radius.

Indian UST: Underground Storage Tanks on Indian Land. A listing of underground storage tank locations on Indian Land. MECC has been informed that records regarding this database were not made available to EDR for all EPA Regions, including 2 and 3.

Findings: No sites located within a ¼-mile radius.

Indian VCP: Voluntary Cleanup Program on Indian Land. A listing of voluntary cleanup priority sites located on Indian Land. MECC has been informed that records regarding this database were not made available to EDR for all EPA Regions, including 2 and 3.

Findings: No sites located within a ½-mile radius.

ADDITIONAL DATABASE RECORDS SEARCHED

Database	Radius Searched	Last Updated
1. EDR Manufactured Gas Plants	1 Mile	N/A
2. EDR US Hist Auto Stations	¼ Mile	N/A
3. EDR US Hist Cleaners	¼ Mile	N/A

EDR MGP: EDR Proprietary Manufactured Gas Plants The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Findings: No sites located within a 1-mile radius.

EDR Historical Auto Stations- EDR has searched selected national collections of business directories and has collected listings of potential gas station /filling station /service station sites that were available to EDR researchers. EDR's review was limited to those categories that might, in EDR's opinion, include gas station /filling station /service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, etc.

Findings: 52 sites located within a ¼-mile radius.

EDR US Hist Cleaners-EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR Researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion include dry cleaning establishments. The categories reviewed, included, but were not limited to dry cleaners, cleaners, laundry, Laundromat, cleaning /laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Findings: 14 sites located within a ¼-mile radius.

ORPHAN SITES

Our database review indicated several sites that cannot be positively plotted (orphan sites). A total of 20 sites were classified as orphans. MECC reviewed the orphan summary and identified no property or incident that may be located in close proximity of the site, or which could adversely affect the environmental integrity of the site. In addition, the site is not identified in the orphan summary.

5.2 ADDITIONAL RESOURCES SEARCHED

MECC has used the following websites to research information on the subject property:

- NYC Housing and Preservation
- NYC Department of Finance
- NYC Department of Buildings
- NYCityMap City-Wide GIS

5.3 PHYSICAL SETTING SOURCES

A. BODIES OF WATER

The nearest body of water to the subject site is the Dutch Kills, which is approximately 3/4 mile south of the site.

B. GROUND WATER FLOW

Through information provided by EDR, hydrological data involving ground water flow has been obtained. Based on our findings, the hydrological groundwater flows in a southerly direction eventually emptying into the Dutch Kills.

Groundwater in this area is at a depth of approximately 31 feet.

Drinking water for the five boroughs has been supplied by the New York reservoir system for many years (See Map in Appendix A). Groundwater is not a primary source of drinking water for Queens.

C. ECOLOGICALLY SENSITIVE AREA

Based on information provided by Environmental Data Resources (EDR), no designated wetlands are located in the immediate vicinity of the property.

D. SITE GEOLOGY AND TOPOGRAPHY

Information pertaining to the hydrogeologic setting in the vicinity of the Property was obtained from a review of selected published documents and maps. United States Geological Survey (USGS) 7.5-minute Topographic Maps were used to characterize surface topography, water table elevation and drainage. Subsurface characteristics were obtained from USGS Surficial and Bedrock Geology Maps.

The Property elevation is approximately 31 feet above mean sea level.

Surface topography is flat with a slight downward slope to the southeast.

The geologic conditions in this area of Queens generally consist of urban soils.

5.4 HISTORICAL USE INFORMATION ON THE PROPERTY

MECC has consulted the following historical sources to develop a history of the previous uses of the Property and surrounding area, in order to help identify the likelihood of past uses having led to Recognized Environmental Conditions (RECs).

In accordance with the ASTM standard, MECC has made an attempt to identify all obvious uses of the property from the present, back to the Property's first developed use, or back to 1940, whichever is earlier. Standard historical sources were available dating back to the year ____, and the Property's first developed use was as a ____ in the year ____.

A. Sanborn Fire Insurance maps

Sanborn Fire Insurance maps of the site and immediate area were available for the years 1898, 1915, 1936, 1947, 1950, 1970, 1977, 1979, 1980, 1985, 1986, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 2001, 2002, 2003, 2004, 2005 and 2006. The maps indicate the following information:

1898-1915 Dwelling

1936-2006 Similar to current conditions (Residential /Commercial building)

B. Aerial Photographs

Aerial Photographs of the site and immediate area were available for the years 1924, 1941, 1954, 1961, 1966, 1974, 1984, 1994, 1995, 2006, 2009 and 2011. The photos indicate the following information:

This section of Queens has been developed with residential and commercial buildings from 1924 through the latest aerial photo available (2011).

C. City Directories

City Directories were ordered for the site (See Appendix A). The search indicated the following:

1934-2013 Residential /Commercial occupants

D. Topographic Maps

A topographic map (topo) is a color coded line-and-symbol representation of natural and selected artificial features plotted to a scale. Topos show the shape, elevation, and development of the terrain in precise detail by using contour lines and color coded symbols. The colors of the lines usually indicate similar classes of information. For example, topographic contours (brown); lakes, streams, irrigation ditches, etc. (blue); land grids and important roads (red); secondary roads and trails, railroads, boundaries, etc. (black).

Historical topographic maps are a valuable historical resource for documenting the prior use of a property and its surrounding area.

Topographic Maps of the site and immediate area were available for the years 1897, 1900, 1924, 1947, 1956, 1966, 1967, 1979 and 1995. The maps reveal that the Property is situated in a densely developed urban area.

E. Building Permit Report

MECC has reviewed EDR's Building Permit Report for the subject site (See Appendix A). The report indicated the following:

The complete collection of Building Permit data available to EDR has been searched, and as of 11/03/14, EDR does not have access to building permits in Long Island City, NY.

DATA FAILURES

A data failure is a failure to achieve the historical research objectives. Even after reviewing standard historical sources. Data failure is one type of data gap.

No significant data failures were noted within the historical research conducted by Merritt Environmental Consulting Corp (MECC).

5.5 HISTORICAL USE INFORMATION ON ADJOINING PROPERTIES

The above historical sources were reviewed by Merritt Environmental Consulting Corp. (MECC) for the adjoining properties on the north, south, east & west.

The adjoining properties have historically been commercial and residential in nature.

6) SITE RECONNAISSANCE

6.1 METHODOLOGY AND LIMITING CONDITIONS

On November 5, 2014, a physical site inspection was performed by an Environmental Professional (EP) who traversed the interior and exterior areas of the site by foot, in addition to conducting a review of adjacent areas and their exteriors.

At the time of our inspection, the following areas were accessed by Mr. John Perotti, of our staff: basement areas, boiler room, utilities areas, apartment 1, side paved parking lot, detached garage and all accessible exterior areas of the site.

6.2 GENERAL SITE SETTING

South side of 38th Avenue
Topography is flat

6.3 EXTERIOR OBSERVATIONS

No on-site wells, drinking water wells, odors, pools of liquid, sumps, pits, ponds or lagoons, were observed during the site reconnaissance.

No potential environmental conditions such as, dead vegetation, gas/chemical spills or storage drums were observed throughout the exterior areas at the time of our inspection.

6.4 INTERIOR OBSERVATIONS

No on-site wells, drinking water wells, odors, pools of liquid, sumps, pits, ponds or lagoons, were observed during the site reconnaissance.

The interior inspection revealed no evidence of any on-site staining of petroleum products, chemicals, or other hazardous materials.

6.5 UNDERGROUND STORAGE TANKS (UST) AND DRUMS

Each year, thousands of petroleum leaks and spills are reported nationwide. Thousands of others may go unreported mainly because they have not yet been discovered. These leaks can enter the ground, seep into an aquifer and contaminate a water supply. In some places, water wells have been closed down and people have had to vacate their homes. Even small amounts of petroleum in soil or groundwater can be tasted or smelled and can subsequently affect health.

Leaking petroleum storage tanks are a major source of groundwater contamination. Many older tanks are bare steel and were installed underground in the 1950s and 1960s. These tanks have weakened by rust and have a fifty percent chance of developing leaks.

FINDINGS

At the time of our reconnaissance, suction and return lines were observed entering the boiler room (See Photo Section). There appears to be an underground heating oil storage tank (UST) which is no longer in use buried under the driveway. MECC has not been provided with documentation indicating proper removal /abandonment of the tank. This constitutes a Recognized Environmental Condition (REC).

6.6 ABOVEGROUND STORAGE TANKS (AST)

Aboveground Storage Tanks (ASTs) are less susceptible to leaking mainly because they are typically located in basement areas and protected from weather related elements that cause premature failure. In addition, since ASTs are usually visible and accessible they are easier to inspect than buried tank vessels. According to the Part 613 of Title 6 of the New York State Code of Rules and Regulations (NYCRR) tanks in subterranean vaults or basements which cannot be visually inspected are considered underground tanks and must be tested.

FINDINGS

There are two (2) 275-gallon aboveground storage tanks (ASTs) housing number 2 oil located in the basement. The integrity of the tanks does not appear compromised and no on site leaks or oil stains were present. It is recommended that the tanks be scraped and coated with a good rust inhibitor paint every 2-3 years to retard corrosion from occurring.

6.7 ELECTRICAL TRANSFORMERS (PCBs)

Transformers often contain polychlorinated biphenyl (PCB) Askarel coolant liquid and are generally used in hazardous locations where flammability is of concern. PCB transformers are no longer produced because of EPA's ban on the manufacture of new equipment containing PCBs. However, older equipment does remain in certain areas and may contain PCBs.

As of January, 1979, polychlorinated biphenyls (PCB) and other toxic materials used in fluorescent ballasts were phased out. Any building constructed prior to 1979 may contain PCB in minor quantities and is not considered a major health threat.

Further evaluation goes beyond the scope of a Phase I Environmental Report. Should you need any additional information, a technical engineer may be contacted for assistance.

FINDINGS

No electrical transformers were observed on the property.

As per the Toxic Substance Control Act (TSCA), the transformer owner, i.e. the utility company, is responsible for all transformer maintenance and all spills of PCBs from their transformers.

Fluorescent light fixtures were not inspected for PCB content under the scope of this assessment.

6.8 NATURAL GAS

There is one underground gas main entering the building from 38th Avenue. The main is connected to two (2) meters located in the basement. The gas is used for cooking purposes only.

Gas service is provided by Con Edison.

6.9 VAPOR ENCROACHMENT

A Vapor Encroachment Condition (VEC) is defined by ASTM E2600-10 as the presence or likely presence of contaminant of concern (COC) vapors in the subsurface of the Target Property (TP) caused by contaminated soil or groundwater. This can occur at the TP or adjoining properties.

MECC conducted a review of historical resources and regulatory database listings to identify any potential sources of contamination at the subject site that may result in Vapor Encroachment. In addition, MECC has reviewed available information for surrounding properties within the appropriate search distances to identify potential sources of a VEC at the subject site.

This is not intended to meet the criteria of a Vapor Encroachment Screen (VES) as outlined by ASTM E2600-10 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transaction. This is beyond the scope of a Phase I ESA.

FINDINGS:

6.10 NON-SCOPE ASTM CONSIDERATIONS

There may be environmental issues or conditions at a property that parties may wish to assess in connection with commercial real estate that are outside the scope of this practice (the non-scope considerations). Some substances may be present on a property in quantities and under conditions that may lead to contamination of the property or of nearby properties but are not included in CERCLA's definition of hazardous substances (42 U.S.C. §9601(14)) or do not otherwise present potential CERCLA liability. In any case, they are beyond the scope of this practice. There may be standards or protocols for assessment of potential hazards and conditions associated with non-scope conditions developed by governmental entities, professional organizations, or other private entities. Asbestos-Containing Building Materials, Lead-Based Paint, and Radon are several non-scope considerations that persons may want to assess in connection with commercial real estate.

A. ASBESTOS

Asbestos is the name given to several types of fire resistant mineral fiber found in rocks. These minerals are not easily destroyed or degraded by natural processes. Those minerals that have been used most commonly by the construction industry include chrysotile, actinolite, amosite, anthrophyllite, crocidolite and tremolite.

Because of its superior insulating and tensile ability, asbestos has traditionally been used by the building industry in varied forms. Between 1920 and 1980, blanket-type pipe insulation of ACM was prevalent in commercial and residential dwellings. Furthermore, buildings built or remodeled between 1945 and 1978 were often completed with a friable ACM sprayed or trowelled onto the ceiling or walls.

The EPA has identified over 3,000 products containing asbestos that have been used in building construction since World War II.

Friable asbestos, as defined by the Federal Environmental Protection Agency as any material, which may be pulverized with hand pressure. This material has the potential to release asbestos fibers into the atmosphere and in turn may be hazardous to the building occupants' health.

Non-friable asbestos can be found in materials such as vinyl asbestos floor tiles, exterior asbestos shingles, asbestos roofing felts, etc. Many of these materials are still manufactured today and not considered hazardous unless the material is cut, sawed, or grounded in a manner that might release asbestos fibers into the atmosphere.

ASBESTOS FINDINGS

Based on the age of the building, Asbestos Containing Materials (ACM) are assumed to be present. Since the building is vacant, it is recommended that any potential ACM be addressed during any future redevelopment of the property in accordance with applicable regulations.

MECC has not conducted an asbestos evaluation as this item is considered beyond the scope of the ASTM E1527-13 standard. Should the purchaser of the property need this item addressed, they should retain reputable firms to provide this additional service.

B. LEAD BASED PAINT

Lead-based paint (LBP) was used extensively in buildings and structures that were constructed prior to 1978 and can be hazardous when damaged (i.e., chipped, broken, crumbling, pulverized); lead is toxic to humans particularly to children, if ingested, inhaled, or otherwise absorbed. Exposure to lead can cause health problems in children ranging from damage to the brain and nervous system, behavioral and learning problems (such as hyperactivity), slowed growth, hearing problems and headaches. In adults the health problems can range from difficulties during pregnancy, other reproductive problems, high blood pressure, digestive problems, nerve disorders, memory and concentration problems and muscle and joint pain.

Our research indicates the building was constructed **prior to 1978**, and lead based paint may be present throughout the building.

FINDINGS

Based on the age of the building, Lead Based Paint (LBP) materials are assumed to be present. Since the building is vacant, it is recommended that any potential LBP be addressed during any future redevelopment of the property in accordance with applicable regulations.

MECC has not conducted a lead based paint evaluation as this item is considered beyond the scope of the ASTM E1527-13 standard. Should the purchaser of the property need this issue addressed, they should retain reputable firms to provide this additional service.

New York City Local Law 101A was enacted on August 1, 2004 and focuses on dwelling units and common areas in buildings built before 1960. Owner occupied cooperatives and condominiums are exempt – but common areas in these buildings are covered under the law. An owner has the obligation to investigate in any apartment in a pre-1960 building occupied by a child seven years of age or under and in common areas for all of the conditions that might create a lead paint hazard. These investigations are required at least once a year.

The owner is required to correct a lead based paint hazard which is defined as “any condition in a dwelling or dwelling unit that causes exposure to lead from lead-contaminated dust, or from lead based paint that is peeling, or from lead based paint that is present on chewable surfaces, deteriorated sub-surfaces, friction surfaces, or impact surfaces that would result in adverse human health effects”.

This Phase I Environmental Site Assessment (ESA) is not designed to make a determination of a building owners compliance with local law 101A.

A lead based paint survey in accordance with The Housing & Urban Development (HUD) guidelines was not conducted under the scope of this assessment.

C. MOLD

Mold contamination has become the cause of rising public concern. Mold not only creates a serious health hazard with a variety of on-going illnesses, infections, and disease- its presence can lower the value of the real estate in question.

Mold is often encountered after flooding, catastrophic damage, or as a result of construction defects or damage to building components which allow moisture to be trapped within a building. Since mold can often be contained beyond visible areas it is difficult to control these potential risks from underneath floors, inside walls, and in HVAC systems without the help of professionals.

FINDINGS

Since the building is vacant, it is recommended that any mold /mold spores be addressed during any future redevelopment of the property in accordance with applicable regulations.

MECC has not conducted a comprehensive Indoor Air Quality (IAQ) or mold evaluation as these items are considered beyond the scope of the ASTM E1527-13 standard. Should the purchaser of the property need these issues addressed, they should retain reputable firms to provide this additional service.

D. RADON

Radon first gained national attention in early 1984, when extremely high levels of indoor radon were found in areas of Connecticut, Pennsylvania, New Jersey, and New York. Radon is a colorless, odorless radioactive gas. Nearly one out of every 15 homes in the U.S. is estimated to have elevated annual average levels of indoor radon. EPA established a Radon Program in 1985 to assist States and homeowners in reducing their risk of lung cancer from indoor radon.

FINDINGS

The New York State Department of Health indicates the average radon level for this area of Queens to be 1.4 picocuries per liter (pCi/L), which is below the EPA action level of 4 pCi/L.

A radon canister was not initiated at the time of our inspection since this is beyond the scope of this assessment.

E. LEAD IN WATER

The U.S. Environmental Protection Agency estimates that drinking water can comprise 20% or more of a person's total exposure to lead. Although lead in drinking water is rarely the single cause of lead poisoning, it can significantly increase a person's total lead exposure. Infants who are fed baby formula or drinks mixed with hot water from the tap are the most vulnerable to lead in drinking water. Lead solder can leach into the water supply. Standing water in the piping system can aid in the leaching process.

The EPA action level for lead in drinking water is 15 parts per billion, (PPB).

A sample with lead levels that equal or exceed 15 PPB is considered to have elevated levels of lead, and it is recommended that response action be taken. This response action may include additional testing, replacement of plumbing components, or an operations and maintenance program.

FINDINGS

There is one lead water main entering the property from 38th Avenue.

7) INTERVIEWS

7.1 INTERVIEW WITH OWNER

The owner was not present during our inspection.

7.2 INTERVIEW WITH SITE REPRESENTATIVE

During our on-site visit, we interviewed Mr. Jeff Sitomer, who is the broker.

Copies of the above records of communications are included in Appendices, Section 10.6.

7.3 INTERVIEWS WITH OCCUPANTS (TENANTS)

No other individuals were interviewed regarding the facility.

7.4 INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

Government Agency

We are researching the following state and local agency records for any information of hazardous operations including, past spills, leaks or violations:

- New York State Health Department
- New York City Fire Department

The information has not yet been provided. We will forward any information that appears to impact the scope of this assessment. We anticipate a response within 30-60 days.

“E” Designation

Research of the New York City Building Department indicated the following:

The subject property is documented as an “E” designated lot at the NYC Department of Buildings. According to a NYCDOB memorandum (12/23/03), “E” designated lots are amendments to the New York City Zoning Maps that may include environmental designations of certain tax lots that have physical or historical evidence of uses related to hazardous materials. Zoning Resolution 11-15 provides that the Department of Buildings may not issue a building permit for work on a tax lot labeled “E”, until the Department of Buildings is provided with a report from the Department of Environmental Protection stating that the environmental requirements for the lot have been met.

The process to remove an “E” designation and receive a notice of satisfaction includes the following:

- Submitting a work plan to the New York City Department of Environmental Protection
- Conducting a sub-surface investigation
- Submit results to the New York City Department of Environmental Protection

The process can take several months and cost over \$20,000 to satisfy the requirement for removing an “E” designation. However, the “E” designation is only addressed during the redevelopment of a site.

The subject site is listed as having an “E” designation for air. The process for receiving a notice of satisfaction from the NYCDEP may include the following:

- Submitting a work plan to the New York City Department of Environmental Protection to monitor levels of noise within the building and provide results to the NYCDEP
- Upgrade windows to provide more sound absorption
- Retrofit A/C with noise reduction sleeves

In addition, the noise designation does not appear to impact the environmental quality of the site. Such as a Hazmat “E” designation in which a comprehensive investigation is required.

Air “E” designations do not generally indicate an impact to the sub surface conditions.

The “E” designations would require that the fee owner of the site conduct a testing and sampling protocol and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings. Once approval is granted by the NYCDEP, the work can be performed in accordance to required regulations in order to receive a notice of satisfaction.

All work conducted during the redevelopment of the property needs to be done in accordance with the New York City Office of Environmental Remediation (OER) guidelines in order to receive a Notice of Satisfaction and obtain required building permits.

7.5 INTERVIEWS WITH OTHERS

No additional interviews were conducted as part of this assessment.

8) REPORT FINDINGS

COPY FROM PAGE 2 (ONLY FROM THE FINAL DRAFT)

9) OPINIONS

A. Based on our site reconnaissance, database review, historical review and interviews with persons familiar with the subject site and adjacent properties, no Recognized Environmental Conditions (RECs), de minimis conditions or Controlled Recognized Environmental Conditions (CRECs) were identified under the scope of services outlined in Section 2.2.

B. Based on our site reconnaissance, database review, historical review and interviews with persons familiar with the subject site and adjacent properties, the above Recognized Environmental Conditions (RECs), **de minimis conditions and/or Controlled Recognized Environmental Conditions (CRECs) were identified under the scope of services outlined in Section 2.2.**

C. The above Historical Recognized Environmental Conditions (HRECs) were indicated or discovered during our on-site inspection / database review / Historical Research.

D. No Historical Recognized Environmental Conditions were indicated or discovered during our on-site inspection / database review / Historical Research.

10) CONCLUSION

Merritt Environmental Consulting Corp has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Practice E1527 of 31-14 38th Avenue, Long Island City, Queens, New York 11101, the property. Any exceptions to, or deletions from, this practice are described in Section [2.2] of this report.

11) DEVIATIONS

The assessment was performed in accordance with the ASTM 1527-13 Standards as well as the detailed scope of services outlined in section 2.2 of this report.

12) ADDITIONAL SERVICES

No additional services were performed beyond the detailed scope of services in section 2.2.

13) REFERENCES

All references relied upon are located in Appendix A.

14) SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

We thank you for allowing Merritt Environmental Consulting Corp., to serve as your Environmental Consultant for this project. We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312, and

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the “All Appropriate Inquiries” in conformance with the standards and practices set forth in 40 CFR Part 312.

Should you have any questions regarding the contents of this report, please feel free to contact us to discuss the report in further detail.

Site Inspector:

Reviewed by:

John Perotti
Environmental Professional

Charles G. Merritt
Environmental Professional /LEED AP

15) QUALIFICATIONS

See Appendix A

APPENDICES

- Site Photography
- Site Vicinity Map
- Regulatory Records Documentation
- Historical Research Documentation
- Interview Documentation
- Qualifications
- Special Contractual Conditions between User & Environmental Professional (If Applicable)
- Additional Information obtained

S:\Environmental\ASTM 2013\Report\M12146\mw

Appendix 3

Health & Safety Plan



Geotechnical
Environmental
Water Resources
Ecological

Health and Safety Plan 31-14 38th Avenue Long Island City, New York

Prepared For:

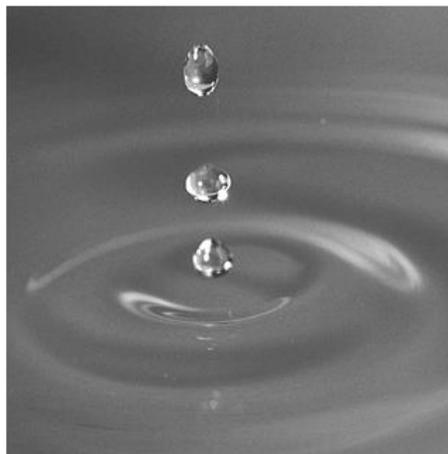
Lam Engineering, P.C.
48-91 187th Street
Fresh Meadows, NY 11365

Submitted by:

GEI Consultants, Inc., P. C.
110 Walt Whitman Road, Suite 204
Huntington Station, NY 11746
631.760.9300

December 2014

Project No. 1415450



Nick Recchia
Project Manager

Steven Hawkins, CSP
Regional Health and Safety Officer

Table of Contents

1.	Emergency Contact Information	1
2.	Background Information	2
2.1	General	2
2.2	Project Description	2
2.3	Site Description	3
3.	Statement of Safety and Health Policy	4
4.	Hazard/Risk Analysis	5
4.1	Personal Safety	5
4.2	Activity Hazard Analysis	6
4.2.1	Handling Drums and Containers	13
4.2.2	Electrical Hazards	13
4.2.2.1	Utilities	13
4.2.2.2	Underground Utilities	14
4.2.2.3	Overhead Utilities	14
4.2.3	Heat Stress	15
4.2.4	Cold Stress	15
4.2.5	Noise	15
4.2.6	Hand and Power Tools	15
4.2.7	Slips, Trips, and Falls	16
4.2.8	Manual Lifting	16
4.2.9	Projectile Objects and Overhead Dangers	16
4.2.10	Cuts and Lacerations	16
4.3	Chemical Hazards	17
4.3.1	Volatile Organic Compounds (VOCs)	17
4.3.2	SVOCs	17
4.3.3	Heavy Metals	18
4.3.4	Evaluation of Organic Vapor Exposure	18
4.3.5	Evaluation of Skin Contact and Absorption	19
4.4	Biological Hazards	23
4.4.1	Poisonous Plants	23
4.4.2	Ticks	24
4.4.2.1	Lyme Disease	24
4.4.2.2	Rocky Mountain Spotted Fever	24
4.4.2.3	Prevention	25
4.4.3	Mosquito- Borne Disease – West Nile Virus	26
4.4.4	Wasps and Bees	26
4.4.5	Sun Exposure	27

5.	Personal Protective Equipment	28
5.1	OSHA Requirements for PPE	29
6.	Key Project Personnel/Responsibilities and Lines of Authority	30
6.1	GEI Personnel	30
6.1.1	GEI Project Manager	30
6.1.2	GEI Corporate Health and Safety Officer	31
6.1.3	GEI Site Safety Officer	31
6.1.4	GEI Field Personnel	32
6.1.5	Lines of Authority will be as follows:	32
6.2	Subcontractors	33
7.	Training Program	34
7.1	HAZWOPER Training	34
7.2	Annual 8-Hour Refresher Training	34
7.3	Supervisor Training	34
7.4	Site-Specific Training	34
7.5	On-Site Safety Briefings	35
7.6	First Aid and CPR	35
8.	Medical Surveillance Program	36
9.	Site Control Measures	37
9.1	Buddy System	37
9.2	Illumination	37
10.	Accident Reporting	38
10.1	Injury Triage Service	38
11.	Decontamination Procedures	39
11.1	Decontamination Equipment Requirements	39
12.	Supplemental Contingency Plan Procedures	40
12.1	Hazard Communication Plan	40
12.2	Fire	40
12.3	Medical Support	40
12.4	Severe Weather	40
12.5	Spills or Material Release	41
12.6	Alcohol and Drug Abuse Prevention	41
13.	Health and Safety Plan Sign-Off	42

Tables

- | | |
|----|-------------------------------|
| 1. | Emergency Contact Information |
| 2. | Activity Hazard Analysis |

3. Chemical Data
4. Summary of PPE by Level
5. OSHA Standards for PPE
6. Real-Time Work Zone Air Monitoring Action Levels

Appendices

- A. Map to Hospital and Occupational Health Clinic
- B. Safety Data Sheets
- C. Heat and Cold Stress Guidelines
- D. Forms
- E. GEI Health and Safety SOPs

I:\Tech\Environmental Projects\Lam Engineer, P.C\HASP\HASP 31-14 38th Ave, Queens, NY.docm

1. Emergency Contact Information

Table 1. Emergency Information

Important Phone Numbers		Directions to Hospital
Local Police:	911	To Hospital and Occupational Health Clinic: See Attached Maps and Directions in Appendix A
Fire Department:	911	
Ambulance:	911	
State Police or County Sheriff:	911	
Mount Sinai Hospital of Queens: 25-10 30th Avenue Long Island City, NY 11102-2448	(718) 932-1000	
Long Island City Health Center: 36-11 21st Street Long Island City, NY 11106	(718) 482-7772	
Project Manager: Nick Recchia	(631) 759-2973 office (516) 395-8763 cell	
Corporate Health and Safety Officer : Robin B. DeHate, Ph.D.	(813) 774-6564 office (813) 323-6220 cell	
Regional Health and Safety Officer Steve Hawkins	(860) 368-5348 office (860) 916-4167 cell	
Client Contact: Yuk Lam	(718) 767-2883 office (917) 659-8195 cell	
Nearest Telephone Location: On-site cellular		

2. Background Information

2.1 General

Engineer GEI Consultants, Inc., P. C. (GEI)
110 Walt Whitman Road, Suite 204
Huntington Station, NY 11746

Project Name 31-14 38th Avenue
Long Island City, New York

This Health and Safety Plan (HASP) establishes policies and procedures to protect GEI personnel from the potential hazards posed by the activities at the site at 31-14 38th Avenue, Queens, New York. Reading of the HASP is required of on-site GEI personnel and will be reviewed by GEI subcontractors. Subcontractors will prepare their own Site-specific HASP and may use this as a guide. The plan identifies measures to minimize accidents and injuries, which may result from project activities or during adverse weather conditions. A copy of this HASP will be maintained on site for the duration of the work.

Included in Section 1 and Appendix A is a route to the nearest medical facility from the Site with directions and contact information. Safety data sheets (formerly known as Material Safety Data Sheets [MSDS]), specific to chemicals that may be encountered while working at the Site, are in Appendix B. Appendix C details the signs, symptoms, care and procedures to both heat and cold stress. Appendix D includes the Tailgate Safety Briefing form, the Project Safety Briefing form, the Accident/Incident Report Form and the Near Miss Reporting Form. Appendix E contains the GEI Health and Safety (H&S) Standard Operating Procedures (SOPs) that apply to this project.

2.2 Project Description

An investigation of soil, soil vapor and groundwater is being performed to properly characterize the site for potential environmental impacts to satisfy the requirements of the New York City Mayor's Office of Environmental Remediation (OER) "E"-designation program. The work is being conducted in accordance with an OER-approved Phase II Investigation Work Plan. Five shallow soil borings, three groundwater samples and three soil vapor samples will be collected as part of the investigation.

2.3 Site Description

The Site is located in the Long Island City section of Queens and is identified as Block 382 and Lot 17. Currently, the Site is a vacant 2-story residential and commercial building and has a lot area of 4,480 square feet. The site is planned for development consisting of a new 6-story mixed-use building.

3. Statement of Safety and Health Policy

GEI is committed to providing a safe and healthy work environment for its employees. To maintain a safe work environment, GEI has established an organizational structure and a Corporate Health and Safety Program to promote the following objectives:

- Reduce the risk of injury, illness, and loss of life to GEI employees.
- Maintain compliance with federal, state, and other applicable safety regulations; and minimize GEI employees' work exposure to potential physical, chemical, biological, and radiological hazards.

Safety policy and procedure on any one project cannot be administered, implemented, monitored, and enforced by any one individual. The total objective of a safe, accident free work environment can only be accomplished by a dedicated, concerted effort by every individual involved with the project from management down to all employees.

Each GEI employee must understand their value to the company; the costs of accidents, both monetary, physical, and emotional; the objective of the safety policy and procedures; the safety rules that apply to the safety policy and procedures; and what their individual role is in administering, implementing, monitoring, and compliance of their safety policy and procedures. This allows for a more personal approach to compliance through planning, training, understanding, and cooperative effort, rather than by strict enforcement. If for any reason an unsafe act persists, strict enforcement will be implemented.

4. Hazard/Risk Analysis

Physical hazards associated with heavy equipment are present. The heavy equipment associated with this project will be drilling equipment. Some of the hazards associated with this equipment include crushing of limbs, slipping, tripping, or falling, and heavy lifting.

Tri-State Drilling Technologies (Tri-State) should verify that electric, gas, water, steam, sewer, and other service lines are shut off, capped, or otherwise controlled, at or outside the building before demolition work is started. In each case, any utility company that is involved should be notified in advance by the Tri-State and its approval or services, if necessary, will be obtained.

Smoking is prohibited at or in the vicinity of hazardous operations or materials. Where smoking is permitted, safe receptacles will be provided for smoking materials. The hazards for this operation are listed in the following Activity Hazard Analysis and Site Hazards sections.

4.1 Personal Safety

Field activities have the potential to take employees into areas which may pose a risk to personal safety. The following websites (sources) have been researched to identify potential crime activity in the area of the project:

- www.crimereports.com: No crimes identified in the past 30 days within a mile of the Site.
- www.cityrating.com/crimestatistics.asp: No crimes identified in the past 30 days within a mile of the Site.
- www.crimemapping.com: No crimes identified in the past 30 days within a mile of the Site.

To protect yourself, take the following precautions:

- If deemed necessary by the PM, use the buddy system (teams of a minimum of two persons present);
- Let the Site Safety Officer (SSO) know when you begin work in these areas and when you leave;
- Call in regularly;
- Pay attention to what is going on around you; and

- If you arrive in an area and it does not look safe to get out of your vehicle, lock the doors and drive off quickly but safely.

Employees must not knowingly enter into a situation where there is the potential for physical and violent behaviors to occur. If employees encounter hostile individuals or a confrontation develops in the work area, suspend work activities, immediately leave the area of concern, and contact local 911 for assistance. Notify the SSO and Corporate Health and Safety Officer (CHSO) of any incidents once you are out of potential danger.

In the event of an emergency, prompt communications with local emergency responders is essential. At least one charged and otherwise functioning cell phone to facilitate emergency communications will be on-site. Confirmation of cellular phone operation will be confirmed at the start of each working day.

4.2 Activity Hazard Analysis

The potential hazards for this project associated with site conditions and activity hazards associated with GEI on-site activities have been identified in Table 2. General hazards and control measures that are applicable to all site activities are identified in the General Hazards section. The site-specific tasks, potential hazards, and control measures established to reduce the risk of injury or illness are identified in the Activity Hazard section of Table 2. Health and Safety SOPs for routine hazards and common site conditions are referenced in the table below and included in Appendix E.

General Hazards	Control Measure
Chemical / Contaminant Exposure – Skin and eye injury/irritation	<ul style="list-style-type: none">• Wear protective coveralls (e.g. Tyvek ®) with shoe covers, safety glasses, face shield, Nitrile gloves.• Dispose of gloves after use and wash hands.• Avoid contact with pooled liquids and limit contact with contaminated soils/groundwater.

General Hazards	Control Measure
<p>Cold Stress – Hypothermia, Frostbite</p>	<ul style="list-style-type: none"> • Take breaks in heated shelters when working in extremely cold temperatures. • Drink warm liquids to reduce the susceptibility to cold stress. • Wear protective clothing (recommended three layers: an outside layer to break the wind, a middle layer to provide insulation, and an inner layer of cotton or synthetic weave to allow ventilation). • Wear a hat and insulated boots. • Keep a change of dry clothing available in case clothes become wet. • Do heavy work during the warmer parts of the day and take breaks from the cold. • If possible shield work areas from drafts of wind and use insulating material on equipment handles when temperatures are below 30°F • Watch for symptoms of cold stress. (see Appendix C in HASP)
<p>Driving</p>	<ul style="list-style-type: none"> • Employees must wear their safety belt while in a moving vehicle. • Vehicle accidents will be reported in accordance with GEI's accident reporting procedures. • Vehicles will be properly maintained and safely operated (refer to GEI's Fleet Maintenance Program). • Employees will follow safe driving behaviors, which include limiting distractions such as manipulating radios or other equipment that may cause a distraction. Employees should not exceed the posted speed limit and should maintain a safe distance between other vehicles. • Use defensive driving techniques. • Driving distance and time after a 12-hour shift should not exceed 30 miles or 30 minutes (whichever is greater). • See SOP HS-004
<p>Dusty Conditions – Eye and respiratory irritation</p>	<ul style="list-style-type: none"> • Avoid travel at extreme times • Wear protective gear – dust masks, safety glasses

General Hazards	Control Measure
<p>Heat stress – Fainting, Fatigue, Heat Stroke</p>	<ul style="list-style-type: none"> • Increase water intake while working. • Increase number of rest breaks and/or rotate workers in shorter work shifts. Rest in cool, dry areas. • Watch for signs and symptoms of heat exhaustion and fatigue. • Plan work for early morning or evening during hot months. • Use ice vests when necessary. • In the event of heat stroke, bring the victim to a cool environment and initiate first aid procedures. • See Appendix C of the HASP
<p>Inclement Weather</p>	<ul style="list-style-type: none"> • Listen to local forecasts for warnings about specific weather hazards such as tornados, thunder storms, and flash floods. • If the storms produce thunder and/or lightning, leave the work area immediately and move to a safe area. • Discuss an action plan prior to the severe weather. • Wear appropriate PPE for the type of weather that could be encountered. • Stop work until conditions are suitable. Take cover in vehicles or shelter as appropriate. • See SOP HS-010
<p>Insects – Bites, Stings, Allergic Reactions</p>	<ul style="list-style-type: none"> • Apply insect repellent prior to performing field work and as often as needed throughout the work shift • Wear proper protective clothing (work boots, socks and light colored clothing) • Wear shoes, long pants with bottoms tucked into boots or socks, and a long-sleeved shirt when outdoors for long periods of time, or when many insects are most active (between dawn and dusk). • When walking in wooded areas, avoid contact with bushes, tall grass, or brush as much as possible • Field personnel who may have insect allergies should have bee sting allergy medication on site and should provide this information to the SSO and the CHSO prior to commencing work. • Field personnel should perform a self-check at the end of the day for ticks. • See SOP HS-001

General Hazards	Control Measure
<p>Noise</p>	<ul style="list-style-type: none"> • Wear hearing protection when equipment such as a drill rig, jackhammer, cut saw, air compressor, blower or other heavy equipment is operating on the site. • Wear hearing protection whenever you need to raise your voice above normal conversational speech due to a loud noise source; this much noise indicates the need for protection. • Wear/use hearing protection appropriately. • See SOP HS-012
<p>Physical Injury – Slips, Trips and Falls</p>	<ul style="list-style-type: none"> • Wear PPE that properly fits, is in good condition and appropriate for the activities and hazards. • Maintain good visibility of the work area. • Avoid walking on uneven, steeply sloped or debris ridden ground surfaces. • Plan tasks prior to performing them including an activity hazard analysis. • Keep trafficked areas free from slip/trip/fall hazards. • Maintain weed growth in sampling areas, especially on slopes. • Wear shoes with traction. • Avoid traversing steep areas in slippery conditions. • Do not carry heavy objects to sampling areas, on steeply sloped areas, or where steep areas must be traversed to arrive at sample points.
<p>Poisonous Plants - Poison Ivy, Poison Oak, and Poison Sumac</p>	<ul style="list-style-type: none"> • Avoid areas infested with poisonous plants. • Use a barrier cream to provide some protection. • Wash exposed clothing separately in hot water with detergent. • After use, clean tools, and soles of boots with rubbing alcohol or soap and lots of water. • Immediately wash with soap and water any areas that come into contact with poisonous plants. • If exposed to a poisonous plant, wash with soap and water or a product such as Technu™. First aid kits are available in the company vehicles. • See SOP HS-001
<p>Repetitive Motion Injury - Standing, Squatting, and Bending Over</p>	<ul style="list-style-type: none"> • Take regular breaks and do not work in unusual positions for long periods of time. • Walk and stretch between tasks.

General Hazards	Control Measure
<p>Unsecured or High Crime Areas</p>	<ul style="list-style-type: none"> • Be aware of your surroundings. • Use the buddy system. Do not remain on site alone. Accompany or be accompanied by others to vehicles. • Request police detail when appropriate. • Let the Site Safety Officer (SSO) know when you begin work in these areas and when you leave. • Call in regularly. • If you arrive in an area and it does not look safe to get out of your vehicle, lock the doors and drive off quickly but safely.
<p>Utilities – Shock, Electrocutation, Fire, Explosion</p>	<ul style="list-style-type: none"> • A thorough underground utility survey must be conducted prior to intrusive activities. Coordination with utility locating services, property owner(s) or utility companies must be conducted. • Utilities are to be considered live or active until documented otherwise. • For overhead utilities within 50 feet, determine with the utility company the appropriate distance. Minimum distance for clearance is based on voltage of the line. • If exposing a utility, proper support and protection must be provided so that the utility will not be damaged. • If a gas line is contacted, the contractor must notify police, fire, and emergency personnel, and evacuate employees according to the site evacuation procedures. No attempt should be made to tamper with or correct the damaged utility. • See SOP HS-014
<p>Vehicular Traffic – Struck by injury, crushing</p>	<ul style="list-style-type: none"> • Increase visibility of the work area to others by using cones, flags, barricades, proper lighting and caution tape to define work area. • Use a "spotter" to locate oncoming vehicles. • Use vehicle to block work area. • Engage police detail for all work conducted in appropriate areas. • Wear high-visibility, reflective vest at all times. • Maintain minimum DOT defined distances to other traffic lanes. • See SOP HS-016.
<p>Wildlife – Bites, Allergic Reaction, Disease</p>	<ul style="list-style-type: none"> • Wear boots, avoid as much as possible and approach with caution as necessary. • Avoid contact with wild animals. Put on hip or chest waders (if available) prior to walking through vegetation. • See SOP HS-001

Activity	Potential Hazard	Control Measures
Construction Site Entry	Struck-by, caught-in-between equipment, crushing, pinch points	<ul style="list-style-type: none"> • Wear hardhat; high visibility reflective safety vest; steel-toed, steel-shank boots or (electrical hazard) EH-rated safety boots with composite toe and shank; safety glasses; nitrile/neoprene gloves; and earplugs. • Identify yourself and your work location to heavy equipment operators, so they may incorporate you into their operations. • Coordinate hand signals with operators. • Stay Alert! Pay attention to equipment backup alarms and swing radii. • Wear a high-visibility, reflective vest when working near equipment or motor vehicle traffic. • Position yourself in a safe location when filling out logs talking with the contractor. • Notify the contractor immediately if any problems arise. • Do not stand or sit under suspended loads or near any pressurized equipment lines. • Do not operate cellular telephones in the vicinity of heavy equipment operation.
Cutting Cores	Cuts/lacerations	<ul style="list-style-type: none"> • Use care when cutting cores. Use mechanical shears, electric knife or self-retracting safety blade when handling cores. • Eliminate hazard by having the drillers open the cores for you. • When using cutting tools, follow the safety precautions listed below: <ul style="list-style-type: none"> • Keep free hand out of the way. • Secure work if cutting through thick material. • Use only sharp blades; dull blades require more force that results in less knife control. • Pull the knife through the object and away from your body; pulling motions are easier to manage. • Do not put the knife in your pocket. • Wear leather or Kevlar® gloves when using knives or blades, or when removing sharp objects caught or dangling in sampling gear.
Disinfecting Gear	Possible exposure to decontamination chemicals	<ul style="list-style-type: none"> • Wear rubber gloves, and glasses to provide eye protection from splashing. Wash hands immediately after use.
Heavy Lifting	Back injury, knee injury	<ul style="list-style-type: none"> • Use proper lifting techniques. • Ask fellow worker for help. • Use a mechanical lifting device or a lifting aid where appropriate. • If you must lift, plan the lift before doing it. • Check your route for clearance. • Bend at the knees and use leg muscles when lifting. • Use the buddy system when lifting heavy or awkward objects. • Do not twist your body while lifting.

Activity	Potential Hazard	Control Measures
Heavy Equipment – Working Near	Struck-by, caught-in-between equipment, crushing, pinch points	<ul style="list-style-type: none"> • Wear hardhat; high visibility reflective safety vest; steel-toed, steel-shank boots or (electrical hazard) EH-rated safety boots with composite toe and shank; safety glasses; nitrile/neoprene gloves; and earplugs. • Identify yourself and your work location to heavy equipment operators, so they may incorporate you into their operations. • Coordinate hand signals with operators. • Stay Alert! Pay attention to equipment backup alarms and swing radii. • Wear a high-visibility, reflective vest when working near equipment or motor vehicle traffic. • Position yourself in a safe location when filling out logs talking with the contractor. • Notify the contractor immediately if any problems arise. • Do not stand or sit under suspended loads or near any pressurized equipment lines. • Do not operate cellular telephones in the vicinity of heavy equipment operation.
Groundwater Sampling	Contaminant Exposure, Heavy Lifting, Repetition, Slips/Trips/Falls	<ul style="list-style-type: none"> • Wear hardhat; high visibility reflective safety vest; steel-toed, steel-shank boots or composite toe and shank; safety glasses and Nitrile/neoprene gloves. • Dispose of gloves after use and wash hands. • Use proper lifting techniques. • Take regular breaks and do not work in unusual positions for long periods of time. • Keep trafficked areas free from slip/trip/fall hazards.
Soil Sampling/Soil Vapor Sampling	Contaminant Exposure, Cuts/Scrapes, Heavy Lifting, Repetition, Slips/Trips/Falls	<ul style="list-style-type: none"> • Wear hardhat; high visibility reflective safety vest; steel-toed, steel-shank boots or composite toe and shank; safety glasses; Nitrile/neoprene gloves; and earplugs as necessary. • Dispose of gloves after use and wash hands. • Wear work gloves over nitrile gloves. • Take regular breaks and do not work in unusual positions for long periods of time. • Keep trafficked areas free from slip/trip/fall hazards.
Drum Handling	Contaminant Contact <i>Wear proper PPE during sampling including nitrile gloves and safety glasses.</i> Cuts or Abrasions Heavy Lifting , Slips/Trips/Falls	<ul style="list-style-type: none"> • Wear proper PPE during sampling including nitrile gloves and safety glasses and face shield as appropriate. • Use proper dollies or drum moving tools. • Use applicable tools to open/close drum lids. • Do not handle drums with bulging sides. • Dispose of gloves after use and wash hands. • Wear work gloves over nitrile gloves. • Use proper lifting techniques. • Ask fellow worker(s) for help. • Keep trafficked areas free from slip/trip/fall hazards.

Activity	Potential Hazard	Control Measures
Waste Characterization	Contaminant Contact <i>Wear proper PPE during sampling including nitrile gloves and safety glasses.</i> Cuts or Abrasions, Slips/Trips/Falls	<ul style="list-style-type: none"> • Wear proper PPE during sampling including nitrile gloves and safety glasses. • Dispose of gloves after use and wash hands. • Wear work gloves over nitrile gloves. • Keep trafficked areas free from slip/trip/fall hazards.

Personal Protective Equipment (PPE) is the initial level of protection based on the activity hazards and Site conditions which have been identified. Upgrades to respiratory protection may be required based on the designated Action Levels found in Section 9. General on-site provisions will include: extra nitrile, leather, and/or Kevlar gloves, extra protective coveralls (e.g. Tyvek®) with boot covers, drinking water and electrolyte fluids, reflective vest, first aid kit, fire extinguisher, hearing protection, and washing facilities.

If Site conditions suggest the existence of a situation more hazardous than anticipated, the Site personnel will evacuate the immediate area. The hazard, the level of precautions, and the PPE will then be reevaluated with the assistance and approval of the CHSO (Robin DeHate) and the Project Manager (PM) Nick Recchia.

4.2.1 Handling Drums and Containers

Regulations for handling drums and containers are specified by Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) 1910.120(j). Potential hazards associated with handling drums include vapor generation, fire, explosions, and possible physical injury. Handling of drums/containers during the Site investigation and remediation activities may be necessary. If drum/container handling is necessary, it will be performed in accordance with applicable regulations.

4.2.2 Electrical Hazards

4.2.2.1 Utilities

The Site may have shallow, buried utilities and also overhead utilities in certain areas. It will be necessary for parties disturbing the existing ground surface and conducting operations with heavy equipment having high clearances to exercise caution in performing project-related work with respect to the presence of utilities. Utility companies with active, buried lines in the Site area will be asked by the Contractor performing intrusive activities to mark their facilities. Employees will use these data to choose work locations.

4.2.2.2 Underground Utilities

No excavating, drilling, boring, or other intrusive activities will be performed until an underground utility survey, conducted by knowledgeable persons or agencies, has been made. This survey will identify underground and in-workplace utilities such as the following:

- Electrical lines and appliances;
- Telephone lines;
- Cable television lines;
- Gas lines;
- Pipelines;
- Steam lines;
- Water lines;
- Sewer lines; and/or
- Pressurized air lines.

The location of utilities will be discussed with GEI employees and subcontractors during a Site Safety Briefing. Identified utilities should be marked or access otherwise restricted to avoid chance of accidental contact.

Even when a utility search has been completed, drilling, boring, and excavation should commence with caution until advanced beyond the depth at which such utilities are usually located. Utilities will be considered “live” or active until reliable sources demonstrate otherwise.

4.2.2.3 Overhead Utilities

Overhead transmission and distribution lines will be carried on towers and poles which provide adequate safety clearance over roadways and structures. Clearances will be adequate for the safe movement of vehicles and for the operation of construction equipment.

Overhead or above-ground electric lines should be considered active until a reliable source has documented them to be otherwise. Elevated work platforms, ladders, scaffolding, man-lifts, and drill or vehicle superstructures will be erected a minimum of 20 feet (the actual distance is dependent upon the voltage of the line) from overhead electrical lines until the line is de-energized, grounded, or shielded so arcing cannot occur between the work location or superstructure.

4.2.3 Heat Stress

Employees may be exposed to the hazards associated with heat stress when ambient temperatures exceed 70°F. Employees should increase water intake while working in conditions of high heat. Enough water should be available so that each employee can consume 1 quart of water per hour. In addition, they should increase number of rest breaks and/or rotate employees in shorter work shifts. Employees should rest in cool, dry, shaded areas for at least 5 minutes. Employees should not wait until they feel sick to cool down. Watch for signs and symptoms of heat exhaustion and fatigue. In the event of heat stroke, bring the victim to a cool environment, call for help, and initiate first aid procedures

The procedures to be followed regarding avoiding heat stress are provided in Appendix C – Heat Stress Guidelines and in GEI’s Heat Stress program.

4.2.4 Cold Stress

Employees may be exposed to the hazards of working in cold environments. Potential hazards in cold environments include frostbite, trench foot or immersion foot, hypothermia, as well as slippery surfaces, brittle equipment, and poor judgment. The procedures to be followed regarding avoiding cold stress are provided in Appendix C – Cold Stress Guidelines and in GEI’s Cold Stress program.

4.2.5 Noise

Noise is a potential hazard associated with the operation of heavy equipment, power tools, pumps, and generators. Employees who will perform suspected or established high noise tasks and operations will wear hearing protection. If deemed necessary by the SSO, the CHSO will be consulted on the need for additional hearing protection and the need to monitor sound levels for Site activities. Other employees who do not need to be in proximity of the noise should distance themselves from the equipment generating the noise.

4.2.6 Hand and Power Tools

In order to complete the various tasks for the project, personnel may use hand and power tools. The use of hand and power tools can present a variety of hazards, including physical harm from being struck by flying objects, being cut or struck by the tool, fire, and electrocution. Work gloves, safety glasses, and hard hats will be worn by the operating personnel when using hand and power tools and Ground Fault Circuit Interrupter (GFCI)-equipped circuits will be used for power tools.

4.2.7 Slips, Trips, and Falls

Working in and around the Site may pose slip, trip, and fall hazards due to slippery and uneven surfaces. Excavation at the Site may cause uneven footing in trenches and around the soil piles. Steep slope and uneven terrain conditions at the Site are also a primary concern. GEI employees will wear proper foot gear and will employ good work practice and housekeeping procedures to minimize the potential for slips, trips, and falls.

4.2.8 Manual Lifting

Manual lifting of objects and equipment may be required. Failure to follow proper lifting technique can result in back injuries and strains. Employees should use a buddy system and/or power equipment to lift heavy loads whenever possible and should evaluate loads before trying to lift them (i.e., they should be able to easily tip the load and then return it to its original position). Carrying heavy loads with a buddy and proper lifting techniques include:

- 1) Make sure footing is solid;
- 2) Make back straight with no curving or slouching;
- 3) Center body over feet;
- 4) Grasp the object firmly and as close to your body as possible;
- 5) Lift with legs; and
- 6) Turn with your feet, don't twist.

4.2.9 Projectile Objects and Overhead Dangers

Overhead dangers, including but not limited to falling debris and equipment, can occur while operating drill rigs. GEI employees will maintain a minimum distance from large overhead operations and to maintain proper communication with heavy equipment operators and their handlers, should work necessitate their presence beyond the minimum safety distance. Proper PPE will be worn during these types of activities including steel-toed/shank boots, safety vests, and hard hats.

4.2.10 Cuts and Lacerations

The core sampling program may require employees to use powered cutting tools (circular saw or shears) or a hooked knife to cut open the sample liner. Safety box cutters will be utilized for routine operations such as opening boxes of supplies or cutting rope or string. When using cutting tools, follow the safety precautions listed below:

- Keep free hand out of the way.
- Secure work if cutting through thick material.

- Use only sharp blades; dull blades require more force that results in less knife control.
- Pull the knife through the object and away from your body; pulling motions are easier to manage.
- Do not put the knife in your pocket.
- Wear leather or Kevlar® gloves when using knives or blades, or when removing sharp objects caught or dangling in sampling gear.

4.3 Chemical Hazards

The characteristics of compounds at the Site are discussed below for information purposes. Adherence to the safety and health guidelines in this HASP should reduce the potential for exposure to the compounds discussed below.

4.3.1 Volatile Organic Compounds (VOCs)

Volatile organic chemicals (VOCs), such as trichloroethen (TCE) and perchloroethene (PCE) are present as soil and groundwater contaminants, and in some cases chemical components in non-aqueous phase liquids (NAPL) within soils. These compounds are at environmental concentrations and are not expected to be at concentrations that exposure symptoms would occur. These compounds generally have a depressant effect on the Central Nervous System (CNS), may cause chronic liver and kidney damage, and some are suspected human carcinogens. Benzene is a known human carcinogen. Acute exposure may include headache, dizziness, nausea, and skin and eye irritation. The primary route of exposure to VOCs is through inhalation and therefore respiratory protection is the primary control against exposure to VOCs.

4.3.2 SVOCs

Semi-volatile organic compounds (SVOCs) usually consist of a mixture of acenaphthene, acenaphthylene, anthracene, benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluorethene, benz(a)pyrene, benzo(e)pyrene, benzo(g,h,i)perylene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3cd)pyrene, 2-methyl naphthalene, naphththalene, phenanthrene, phenols, and pyrene.

These SVOCs may be present at the Site within impacted soil and groundwater. These compounds are at environmental concentrations and are not expected to be at concentrations that exposure symptoms would occur. SVOCs such as those listed above may cause contact dermatitis. Direct contact can be irritating to the skin and produce itching, burning, swelling, and redness. Direct contact or exposure to the vapors may be irritating to the eyes. Conjunctivitis may result from prolonged exposure. Many SVOCs are considered to be very

toxic, if ingested. High levels of exposure to SVOCs, though not anticipated during work activities conducted during this project, may increase the risk of cancer including lung, kidney, and skin cancer. Naphthalene is also an eye and skin irritant and can cause nausea, headache, fever, anemia, liver damage, vomiting, convulsions, and coma. Poisoning may occur by ingestion of large doses, inhalation, or skin absorption.

The major route of entry for the work activities to be conducted at this Site is through direct contact. Exposure is most likely when handling soil and water samples. Inhalation may occur when the soil is disturbed causing respirable and nuisance dust particles to become airborne.

4.3.3 Heavy Metals

Exposure to high concentrations of arsenic can cause dermatitis, gastrointestinal disturbances, peripheral neuropathy, respiratory irritation, and hyper pigmentation of skin. Chronic exposure to arsenic has resulted in lung cancer in humans.

Exposure to lead may cause acute symptoms such as eye irritation, weakness, weight loss, abdominal pain, and anemia. Chronic exposure to lead may result in kidney disease, effects to the reproductive system, blood forming organs, and CNS.

Lead and arsenic are regulated by specific OSHA standards. They are 29 CFR 1910.1025/1926.52 and 29 CFR 1910.1018/1926.1118, respectively. These standards include specific requirements for air monitoring, signs and labels, training and medical surveillance.

Exposure to high concentrations of selenium can cause mucous membrane irritation, coughing, sneezing, shortness of breath, chills, headaches, hypotension, and CNS depression. Chronic exposure to selenium could cause bronchial irritation, gastrointestinal distress, excessive fatigue, and skin discoloration.

Exposure to mercury can cause dizziness, salivation nausea, vomiting, diarrhea, constipation, emotional disturbance, and kidney injury. Chronic exposure to mercury can cause CNS damage.

These metals are at environmental concentrations and are not expected to be at concentrations that exposure symptoms would occur. As with SVOCs, when soil is disturbed the primary route of exposure is through inhalation of dust particles.

4.3.4 Evaluation of Organic Vapor Exposure

Air monitoring reduces the risk of overexposure by indicating when action levels have been exceeded and when PPE must be upgraded or changed. Action Levels for VOCs and associated contingency plans for the work zone are discussed within Section 9 of this HASP.

Exposure to organic vapors will be evaluated and/or controlled by:

- Monitoring air concentrations for organic vapors in the breathing zone with a photoionization detector (PID) or a flame ionization detector (FID).
- When possible, engineering control measures will be utilized to suppress the volatile organic vapors. Engineering methods can include utilizing a fan to promote air circulation, utilizing volatile suppressant foam, providing artificial ground cover, or covering up the impacted material with a tarp to mitigate volatile odors.
- When volatile suppression engineering controls are not effective and organic vapor meters indicate concentrations above the action levels, then appropriate respiratory protection (i.e., air purifying respirator with organic vapor cartridge) will be employed.

4.3.5 Evaluation of Skin Contact and Absorption

Skin contact by contaminants may be controlled by use of proper hygiene practices, PPE, and good housekeeping procedures. The proper PPE (e.g., Tyvek[®], gloves, safety glasses) as described in Section 5 will be worn for activities where contact with potential contaminated media or materials are expected.

SDSs for decontamination chemicals and laboratory reagents that may be used on Site are included in Appendix B. Specific chemical hazards information from the occupational health sources are summarized in Table 3.

Table 3. Chemical Data

Compound	CAS #	ACGIH TLV	OSHA PEL	Route of Exposure	Symptoms of Exposure	Target Organs	Physical Data
Arsenic	7440-38-2	0.01 mg/m ³	0.01 mg/m ³ A.L.005mg/m ³	Inhalation Skin Absorption Ingestion Skin Contact	Ulceration of nasal septum, dermatitis, GI disturbances, peripheral neuropathy, respiratory irritation, hyperpigmentation of skin, potential carcinogen	Liver, kidneys, skin, lungs, lymphatic system	Metal: Silver-gray or tin-white, brittle, odorless solid FP: NA IP: NA LEL: NA UEL: NA VP: 0 mm
Benzene	71-43-2	0.5 ppm (Skin)	1 ppm TWA 5 ppm STEL	Inhalation Skin Absorption Ingestion Skin Contact	Irritation of eyes, skin, nose, respiratory system, giddiness, headache, nausea; staggering gait, fatigue, anorexia, weakness, dermatitis, bone marrow depression, potential carcinogen	Eyes, skin, CNS, bone marrow, blood	FP: 12o F IP: 9.24 eve LEL: 1.2% UEL:7.8% VP: 75 mm
Ethylbenzene	100-41-4	100 ppm	100 ppm	Inhalation Ingestion Skin Contact	Eye, skin, mucous membrane irritation; headache; dermatitis, narcosis; coma	Eyes, skin, respiratory system, CNS	FP: 55o F IP: 8.76 eV LEL: 0.8% UEL:6.7% VP: 7 mm
Lead	7439-92-1	0.050 mg/m ³	0.05 mg/m ³ A.L. 0.03 mg/m ³	Inhalation Ingestion Skin Contact	Weakness, insomnia; facial pallor; pal eye, anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis of wrist and ankles; irritates eyes, hypo tension	Eyes, GI tract, CNS, kidneys, blood, gingival tissue	A heavy, ductile, soft, gray solid. FP: NA IP: NA LEL: NA UEL: NA VP: 0 mm
Mercury	7439-97-6	0.025 mg/m ³	0.10 mg/m ³	Inhalation Ingestion Skin Contact Skin Absorption	Irritates eyes and skin, chest pain, cough, difficulty breathing, bronchitis, pneumonitis, tremor, insomnia, irritability, indecision, headache, fatigue, weakness, stomatitis, salivation, Gastrointestinal disturbance, weight loss, proteinuria	Eyes, skin, respiratory tract, central nervous system	Silver-white, heavy odorless liquid FP: NA IP:? LEL: NA UEL:NA VP: 0.0012 mm

Table 3. Chemical Data

Compound	CAS #	ACGIH TLV	OSHA PEL	Route of Exposure	Symptoms of Exposure	Target Organs	Physical Data
Naphthalene	91-20-3		10 ppm (50 mg/m ³) TWA	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes; headache, confusion, excitement, malaise (vague feeling of discomfort); nausea, vomiting, abdominal pain; irritation bladder; profuse sweating; jaundice; hematuria (blood in the urine), renal shutdown; dermatitis, optical neuritis, corneal damage	Eyes, skin, blood, liver, kidneys, central nervous system	FP: 174 F IP: 8.12 eV, LEL: 0.8% UEL:6.7%, VP: 0.08 mm
Toluene	108-88-3	50 ppm	200 ppm	Inhalation Skin Absorption Ingestion Skin Contact	Eye, nose irritation; fatigue, weakness, confusion, euphoria, dizziness, headache; dilated pupils, tearing of eyes; nervousness, muscle fatigue, insomnia, tingling in limbs; dermatitis	Eyes, skin, respiratory system, CNS, liver, kidneys	FP: 40o F IP: 8.82 eV LEL: 1.1% UEL:7.1% VP: 21 mm
Xylene	1330-20-7	100 ppm	100 ppm	Inhalation Skin Absorption Ingestion, Skin Contact	Eye, skin, nose, throat irritation; dizziness, excitement, drowsiness; incoordination, staggering gait; corneal damage; appetite loss, nausea, vomiting, abdominal pain; dermatitis	Eyes, skin, respiratory system, Central Nervous System, GI tract, blood, liver, kidneys	FP: 90o F LEL: 0.9% UEL: 6.7% VP: 9 mm

Abbreviations:

°F = degrees Fahrenheit
 ACGIH = American Conference of Industrial Hygienists
 A.L. = Action Level
 atm = atmosphere
 C = ceiling limit, not to be exceeded
 CAS # = chemical abstract services number
 CNS = Central Nervous System
 CTPV = Coal Tar Pitch Volatiles
 CVS = Cardiovascular System
 eV = electron volt

IP = Ionization Potential
 LEL = Lower explosive limit
 mg/m³ = micrograms per cubic meter
 min = minute
 mm = millimeter
 mmHg = millimeters of mercury
 N/A = not applicable
 OSHA = Occupational Safety and Health Administration
 PAH = Polycyclic Aromatic Hydrocarbons
 PCB = Polychlorinated Biphenyls

Table 3. Chemical Data

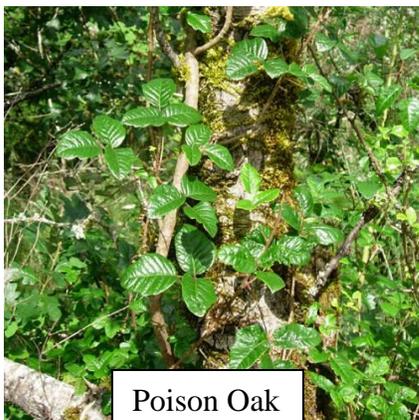
Compound	CAS #	ACGIH TLV	OSHA PEL	Route of Exposure	Symptoms of Exposure	Target Organs	Physical Data
f/cc = fibers per cubic centimeter FP = Flash point GI = Gastro-intestinal H2S = Hydrogen Sulfide HCN = Hydrogen Cyanide hr = hour A.L. = Action Level atm = atmosphere C = ceiling limit, not to be exceeded CAS # = chemical abstract services number CNS = Central Nervous System CTPV = Coal Tar Pitch Volatiles CVS = Cardiovascular System eV = electron volt f/cc = fibers per cubic centimeter FP = Flash point GI = Gastro-intestinal H2S = Hydrogen Sulfide HCN = Hydrogen Cyanide hr = hour					PEL = Permissible exposure limit ppm = parts per million Skin = significant route of exposure STEL = Short-term exposure limit (15 minutes) TWA = Time-weighted average (8 hours) VP = vapor pressure approximately 68°F in mm Hg mg/m ³ = micrograms per cubic meter min = minute mm = millimeter mmHg = millimeters of mercury N/A = not applicable OSHA = Occupational Safety and Health Administration PAH = Polycyclic Aromatic Hydrocarbons PCB = Polychlorinated Biphenyls PEL = Permissible exposure limit ppm = parts per million Skin = significant route of exposure STEL = Short-term exposure limit (15 minutes) TWA = Time-weighted average (8 hours) VP = vapor pressure approximately 68°F in mm Hg		

4.4 Biological Hazards

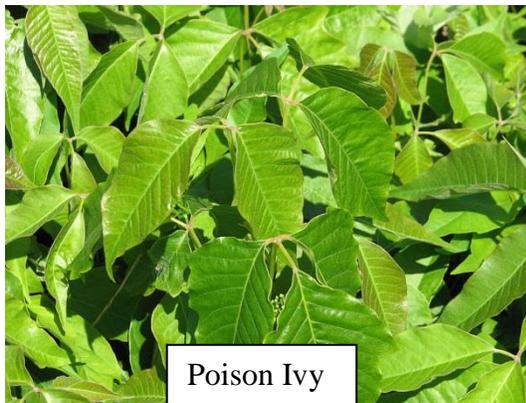
Areas of the Site may be wooded, surrounded with brush, or landscaped. Therefore, employees working on this project should be aware of the potential biological hazards at this Site. Each is discussed in detail below:

4.4.1 *Poisonous Plants*

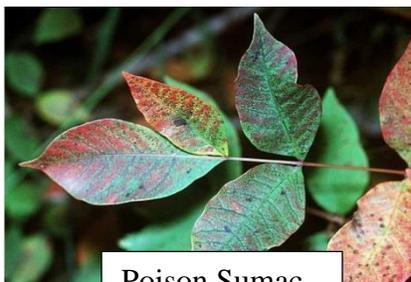
Persons working on the Site should be aware of the possible presence of poisonous plants and insects. Poison ivy is a climbing plant with leaves that consist of three glossy, greenish leaflets. Poison ivy has conspicuous red foliage in the fall. Small yellowish-white flowers appear in May through July at the lower leaf axils of the plant. White berries appear from August through November. Poison ivy is typically found east of the Rockies. Poison oak is similar to poison ivy but its leaves are oak-like in form. Poison oak occurs mainly in the south and southwest. Poison sumac typically occurs as a small tree or shrub and may be 6 to 20 feet in height. The bark is smooth, dark and speckled with darker spots. Poison sumac is typically found in swampy areas and east of the Mississippi. The leaves have 7 to 13 smooth-edged leaflets and drooping clusters of ivory-white berries that appear in August and last through spring.



Poison Oak



Poison Ivy



Poison Sumac

The leaves, roots, stems and fruit of these poisonous plants contain urushiol. Contact with the irritating oil causes an intensely itching skin rash and characteristic, blister-like lesions.

The oil can be transmitted on soot particles when burned and may be carried on the fur of animals, equipment, and apparel.

Proper identification of these plants is the key to preventing contact and subsequent dermatitis. Wear long sleeves and pants when working in wooded areas. In areas of known infestation, wear Tyvek[®] coveralls and gloves. Oils are easily transferred from one surface to another. If you come in contact with these poisonous plants, wash exposed areas immediately with cool water to remove the oils. Some commercial products such as Tecnu's Poison Oak-n-Ivy Cleanser claim to further help with the removal of oils.

4.4.2 Ticks

4.4.2.1 Lyme Disease

Ticks are bloodsuckers, attaching themselves to warm-blooded vertebrates to feed. Deer ticks are associated with the transmission the bacteria that causes Lyme disease. Female deer ticks are about ¼-inch in length and are black and brick red in color. Males are smaller and all black. If a tick is not removed, or if the tick is allowed to remain for days feeding on human blood, a condition known as tick paralysis can develop. This is due to a neurotoxin, which the tick apparently injects while engorging. This neurotoxin acts upon the spinal cord causing incoordination, weakness, and paralysis.

The early stages of Lyme disease, which can develop within a week to a few weeks of the tick bite, are usually marked by one or more of these signs and symptoms:

- Tiredness
- Chills and fever
- Headache
- Muscle and/or joint pain
- Swollen lymph glands
- Characteristic skin rash (i.e. bullseye rash)

4.4.2.2 Rocky Mountain Spotted Fever

Rocky Mountain spotted fever is spread by the American dog tick, the lone-star tick, and the wood tick, all of which like to live in wooded areas and tall, grassy fields. The disease is most common in the spring and summer when these ticks are active, but it can occur anytime during the year when the weather is warm.

Initial signs and symptoms of the disease include sudden onset of fever, headache, and muscle pain, followed by development of a rash. Initial symptoms may include fever, nausea, vomiting, severe headache, muscle pain, and/or lack of appetite.

The rash first appears 2 to 5 days after the onset of fever and is often not present or may be very subtle. Most often it begins as small, flat, pink, non-itchy spots on the wrists, forearms, and ankles. These spots turn pale when pressure is applied and eventually become raised on the skin. Later signs and symptoms include rash, abdominal pain, joint pain, and/or diarrhea.

The characteristic red, spotted rash of Rocky Mountain spotted fever is usually not seen until the 6th day or later after onset of symptoms, and this type of rash occurs in only 35% to 60% of patients with Rocky Mountain spotted fever. The rash involves the palms or soles in as many as 50% to 80% of patients; however, this distribution may not occur until later in the course of the disease.

4.4.2.3 Prevention

Tick season lasts from April through October; peak season is May through July. You can reduce your risk by taking these precautions:

- During outside activities, wear long sleeves and long pants tucked into socks. Wear a hat, and tie hair back.
- Use insecticides to repel or kill ticks. Repellents containing the compound n,n-diethyl-meta-toluamide (DEET) can be used on exposed skin except for the face, but they do not kill ticks and are not 100% effective in discouraging ticks from biting. Products containing permethrin kill ticks, but they cannot be used on the skin -- only on clothing. When using any of these chemicals, follow label directions carefully.
- After outdoor activities, perform a tick check. Check body areas where ticks are commonly found: behind the knees, between the fingers and toes, under the arms, in and behind the ears, and on the neck, hairline, and top of the head. Check places where clothing presses on the skin.
- Remove attached ticks promptly. Removing a tick before it has been attached for more than 24 hours greatly reduces the risk of infection. Use tweezers, and grab as closely to the skin as possible. Do not try to remove ticks by squeezing them, coating them with petroleum jelly, or burning them with a match. Keep ticks in a zip-lock baggie in case testing needs to be performed.
- Report any of the above symptoms and all tick bites to the PM and CHSO for evaluation.

4.4.3 Mosquito- Borne Disease – West Nile Virus

West Nile encephalitis is an infection of the brain caused by the West Nile virus, which is transmitted by infected mosquitoes. Following transmission from an infected mosquito, West Nile virus multiplies in the person's blood system and crosses the blood-brain barrier to reach the brain. The virus interferes with normal CNS functioning and causes inflammation of the brain tissue. However, most infections are mild and symptoms include fever, headache, and body aches. More severe infections may be marked by headache, high fever, neck stiffness, stupor, disorientation, coma, tremors, convulsions, muscle weakness, paralysis, and rarely, death. Persons over the age of 50 have the highest risk of severe disease.

Prevention centers on public health action to control mosquitoes and on individual action to avoid mosquito bites. To avoid being bitten by the mosquitoes that cause the disease, use the following control measures:

If possible, stay inside between dusk and dark. This is when mosquitoes are most active. When outside (between dusk and dark), wear long pants and long-sleeved shirts. Spray exposed skin with an insect repellent, preferably containing DEET.

4.4.4 Wasps and Bees

Wasps (hornets and yellow-jackets) and bees (honeybees and bumblebees) are common insects that may pose a potential hazard to the field team if work is performed during spring, summer, or fall. Bees normally build their nests in the soil. However, they use other natural holes such as abandoned rodent nests or tree hollows. Wasps make a football-shaped, paper-like nest either below or above the ground. Yellow-jackets tend to build their nests in the ground but hornets tend to build their nests in trees and shrubbery. Bees are generally more mild-mannered than wasps and are less likely to sting. Bees can only sting once while wasps sting multiple times because their stinger is barbed. Wasps sting when they feel threatened. By remaining calm and not annoying wasps by swatting, you lessen the chance of being stung.

Wasps and bees inject a venomous fluid under the skin when they sting. The venom causes a painful swelling that may last for several days. If the stinger is still present, carefully remove it with tweezers. Some people may develop an allergic reaction (i.e. anaphylactic shock) to a wasp or bee sting. If such a reaction develops, seek medical attention at once. If a GEI employee is allergic to bees or wasps notify the SSO and if, needed, the location of the epi pen.

4.4.5 Sun Exposure

Employees are encouraged to liberally apply sunscreen, with a minimum sun protection factor (SPF) of 15, when working outdoors to avoid sunburn and potential skin cancer, which is associated with excessive sun exposure to unprotected skin. Additionally, employees should wear safety glasses that offer protection from ultraviolet A and B (UVA/UVB) rays.

5. Personal Protective Equipment

The PPE specified in Table 4 represents PPE selection required by 29 CFR 1910.132, and is based on the Activity Hazard Analysis of Section 4 (Table 2). Specific information on the selection rationale activity can be found in the GEI Health and Safety Manual.

The PPE program addresses elements, such as PPE selection based on Site hazards, use and limitations, donning and doffing procedures, maintenance and storage, decontamination and disposal, training and proper fitting, inspection procedures prior to / during / and after use, evaluation of the effectiveness of the PPE program, and limitations during temperature extremes, heat stress, and other appropriate medical considerations. A summary of PPE for each level of protection is in Table 4.

Table 4. Site-Specific PPE

Task	PPE Level	Site-Specific Requirements	Respirator
Mobilization/Demobilization			
Reconnaissance	D	Hard hat, safety glasses, steel toe/shank safety boot, reflective vest, leather work gloves, hearing protection as needed	D - None
Mobilization/Demobilization of Equipment and Supplies	D	Hard hat, safety glasses, steel toe/shank safety boot, reflective vest, leather work gloves, hearing protection as needed	D – None
Establishment of Site Security, Work Zones, and Staging Area	D	Hard hat, safety glasses, steel toe/shank safety boot, reflective vest, leather work gloves, hearing protection as needed	D - None
Construction			
Drilling, Groundwater Well Installation, Sampling	D	Hard hat, safety glasses, steel toe/shank safety boot with overboot as needed, reflective vest, leather work gloves as needed, nitrile gloves, hearing protection as needed, Tyvek as needed	Level D initially, Level C-If action levels exceeded (see Section 9 of HASP)

Use of Level A or Level B PPE is not anticipated. If conditions indicating the need for Level A or Level B PPE are encountered, personnel will leave the Site and this HASP will be revised with oversight of the CHSO or GEI personnel will not re-enter the Site until conditions allow.

For most work conducted at the site, Level D PPE will include long pants, hard hats, safety glasses with side shields, and steel toe/shank or EH-rated safety boots. When work is conducted in areas where non-aqueous phase liquid (NAPL) or tar-saturated soil is anticipated, employees will wear, at a minimum, modified Level D PPE, which can include Tyvek® coveralls and safety boots with overboots.

5.1 OSHA Requirements for PPE

Personal protective equipment used during the course of this field investigation must meet the following OSHA standards:

Table 5. OSHA Standards for PPE

Type of Protection	Regulation	Source
Eye and Face	29 CFR 1910.133	ANSI Z87.1 1968
Respiratory	29 CFR 1910.134	ANSI Z88.1 1980
Head	29 CFR 1910.135	ANSI Z89.1 1969
Foot	29 CFR 1910.136	ANSI Z41.1 1999 or ASTM F-2412-2005, and ASTM F-2413-2005

CRF = Code of Federal Regulations

ANSI = American National Standards Institute

ASTM = American Society For Testing and Materials

On-site GEI personnel who have the potential to don a respirator must have a valid fit test certification and documentation of medical clearance. The CHSO will maintain such information on file for on-site personnel. The PM will obtain such information from the subcontractor's site supervisor prior to the initiation of such work. Both the respirator and cartridges specified for use in Level C protection must be fit-tested prior to use in accordance with OSHA regulations (29 CFR 1910.134). Air purifying respirators cannot be worn under the following conditions:

- Oxygen deficiency (less than 20.7%).
- Imminent Danger to Life and Health (IDLH) concentrations.
- If contaminant levels exceed designated use concentrations.

6.1.2 GEI Corporate Health and Safety Officer

The CHSO, Robin DeHate, is the individual responsible for the review, interpretation, and modification of this HASP. Modifications to this HASP which may result in less stringent precautions cannot be undertaken by the PM or the SSO without the approval of the CHSO. Specific duties of the CHSO include:

- Writing, approving, and amending the HASP for this project;
- Advising the PM and SSO on matters relating to health and safety on this Site;
- Recommending appropriate PPE and safety equipment to protect personnel from potential Site hazards;
- Conducting accident investigations; and
- Maintaining regular contact with the PM and SSO to evaluate Site conditions and new information which might require modifications to the HASP.

6.1.3 GEI Site Safety Officer

GEI field staff is responsible for implementing the safety requirements specified in this HASP. However, one person will serve as the SSO. For this program, Chris Morris will serve as the SSO. The SSO will be on-site during all activities covered by this HASP. The SSO is responsible for enforcing the requirements of this HASP once work begins. The SSO has the authority to immediately correct situations where noncompliance with this HASP is noted and to immediately stop work in cases where an immediate danger is perceived. Some of the SSO's specific responsibilities include:

- Conducting/attending the Project Safety Briefing prior to beginning work, and subsequent safety meetings as necessary;
- Conduct daily Safety Tailgate meeting in accordance with NYCOER requirements (can be combined with "pre-entry") briefing for Site-related work;
- Verifying that personnel to whom this HASP applies have attended and participated in the Project Safety Briefing and subsequent safety meetings that are conducted during the implementation of the program;
- Maintaining a high level of health and safety consciousness among employees implementing the proposed activities;
- Procuring the air monitoring instrumentation required and performing air monitoring for investigative activities;
- Procuring and distributing the PPE and safety equipment needed for this project for GEI employees;

- Verifying that PPE and health and safety equipment used by GEI is in good working order;
- Verifying that the selected contractors are prepared with the correct PPE and safety equipment and supplies;
- Notifying the PM of noncompliance situations and stopping work in the event that an immediate danger situation is perceived;
- Monitoring and controlling the safety performance of personnel within the established restricted areas to confirm that required safety and health procedures are being followed;
- Stopping work in the event that an immediate danger situation is perceived; and
- Reporting accident/incident and preparing accident/incident reports, if necessary.

6.1.4 GEI Field Personnel

GEI field personnel covered by this HASP are responsible for following the health and safety procedures specified in this HASP and for performing their work in a safe and responsible manner. Some of the specific responsibilities of the field personnel are as follows:

- Reading and signing the HASP in its entirety prior to the start of on-site work;
- Attending and actively participating in the required Project Safety Briefing prior to beginning on-site work and any subsequent safety meetings that are conducted during the implementation of the program;
- Stopping work in the event that an immediate danger situation is perceived;
- Bringing forth any questions or concerns regarding the content of the HASP to the PM or the SSO, prior to the start of work;
- Reporting accidents, injuries, and illnesses, regardless of their severity, to the SSO, CHSO, and HR; and
- Complying with the requirements of this HASP and the requests of the SSO.

6.1.5 Lines of Authority will be as follows:

On Site – GEI will have responsibility for safety of its employees during the work performed at the 31-14 38th Avenue Site. GEI's field representative will have a cell phone available to contact the appropriate local authorities, in the event of an emergency. GEI's field representative will be available for communication with the GEI PM and with the Lam Engineering representative.

GEI employees have the authority to stop work activities if an unanticipated hazard is encountered or a potential unsafe condition is observed. The GEI employee should contact the Corporate Health and Safety Officer and the Project Manager to discuss the stop work conditions and potential control methods that can be implemented.

6.2 Subcontractors

GEI has subcontracted the following firms to assist in performing work on this project:

Tri-State Drilling Technologies, Inc.	55 Hilton Avenue, Garden City, NY 11530 (516) 294-6400
--------------------------------------------------	-----------------------------------------------------------

GEI requires its subcontractors to work in a responsible and safe manner. Subcontractors for this project will be required to develop their own HASP for protection of their employees, but, at a minimum, must adhere to applicable requirements set forth in this HASP.

7. Training Program

7.1 HAZWOPER Training

In accordance with OSHA Standard 29 CFR 1910.120 “Hazardous Waste Operations and Emergency Response” (HAZWOPER) responders will, at the time of job assignment, have received a minimum of 40 hours of initial health and safety training for hazardous waste site operations. At a minimum, the training will have consisted of instruction in the topics outlined in the standard. Personnel who have not met the requirements for initial training will not be allowed to work in any Site activities in which they may be exposed to hazards (chemical or physical). Proof of training will be submitted to the PM or his/her representative prior to the start of field activities.

7.2 Annual 8-Hour Refresher Training

Annual 8-hour refresher training will be required of hazardous waste site field personnel in order to maintain their qualifications for fieldwork. The training will cover a review of 29 CFR 1910.120 requirements and related company programs and procedures. Proof of current 8-hour refresher training will be submitted to the PM or his/her representative prior to the start of field activities.

7.3 Supervisor Training

Personnel acting in a supervisory capacity will have received 8 hours of instruction in addition to the initial 40-hour training. In addition supervisors will have 1 year of field experience and training specific to work activities (i.e., sampling, construction observation, etc.)

7.4 Site-Specific Training

Prior to commencement of field activities, the PM or the SSO will verify GEI field personnel assigned to the project will have completed training that will specifically address the activities, procedures, monitoring, and equipment used in the Site operations. It will include Site and facility layout, hazards, and emergency services at the Site, and will highlight the provisions contained within this HASP and applicable GEI H&S SOPs (Appendix E). This training will be documented on the Project Safety Briefing Form Appendix D). The signed form will be forwarded to the Health and Safety Committee at HealthandSafety@geiconsultants.com. In addition, GEI personnel will sign the plan to document that they understand the hazards and control measures presented and agree to

comply with the procedures established in the HASP. Personnel that have not received project-specific training will not be allowed on-site.

7.5 On-Site Safety Briefings

Other GEI personnel will be given health and safety briefings daily by the SSO or field representative to assist GEI personnel in safely conducting work activities. The briefing will include GEI subcontractors. The briefings can include information on new operations to be conducted, changes in work practices, or changes in the Site's environmental conditions, as well as periodic reinforcement of previously discussed topics. The briefings will also provide a forum to facilitate conformance with safety requirements and to identify performance deficiencies related to safety during daily activities or as a result of safety inspections. Documentation of these briefings will be recorded in the GEI field book, if the project duration is less than 5 days. If the project is longer than 5 days, the Tailgate Safety Briefing Form (Appendix D) will be used to document briefings. The meetings will also be an opportunity to periodically update the employees on monitoring results.

7.6 First Aid and CPR

The PM will verify that GEI field staff has current certifications in first aid and Cardiopulmonary Resuscitation (CPR), so that emergency medical treatment is available during field activities. The training will be consistent with the requirements of the American Red Cross Association. GEI employees also attend annual Bloodborne Pathogens training in compliance with OSHA regulations.

8. Medical Surveillance Program

GEI maintains a continuous, corporate, medical surveillance program that includes a plan designed specifically for field personnel engaged in work at sites where hazardous or toxic materials may be present. Robin DeHate is GEI's CHSO and is responsible for the administration and coordination of medical evaluations conducted for GEI's employees at branch office locations. Comprehensive examinations are given to GEI field personnel on an annual or biennial basis (as determined to be appropriate by the CHSO) participating in hazardous waste operations. The medical results of the examinations aid in determining the overall fitness of employees participating in field activities.

Under the CHSO's supervision, field personnel undergo a complete initial physical examination, including a detailed medical and occupational history, before they participate in hazardous waste site investigations. Extensive annual/biennial reexaminations are also performed. Upon completion of these tests, personnel are certified by an occupational health physician as to whether they are fit for field work in general, and fit to use respiratory protection.

If a GEI employee or other project worker shows symptoms of exposure to a hazardous substance and wishes to be rechecked, he/she will be directed to the nearest area hospital or medical facility.

GEI subcontractor personnel that will enter any active waste handling or other active non-"clean" area must certify that they are participating in a medical surveillance program that complies with OSHA regulations for hazardous waste operations (i.e., 29 CFR 1910.120 and 29 CFR 1926.65). Proof of medical clearance will be submitted to the GEI PM or SSO prior to the start of field activities.

9. Site Control Measures

9.1 Buddy System

GEI personnel should be in line-of-site or communication contact with another on-site person. The other on-site person should be aware of his or her role as a “buddy” and be able to provide assistance in the event of an emergency. A copy of this plan will be given to any person acting as a GEI “buddy” for informational purposes.

9.2 Illumination

Illumination requirements identified by OSHA are directed to work efforts inside buildings and/or during non-daylight hours. Activities planned for the Site are anticipated to occur outside during daylight hours. However, if yard areas are used after dark, they will be equipped with illumination that meets or exceeds requirements specified in OSHA Standard 29 CFR 1926.56 “Illumination.” Employees will not work on sites that are not properly lighted.

10. Accident Reporting

GEI will report incidents involving GEI personnel or subcontractor personnel, such as: lost time injuries, injuries requiring medical attention, near miss incidents, fires, fatalities, accidents involving the public, chemical spills and property damage. The report will be made to the PM verbally within 2 hours of the incident. The PM will immediately inform the CHSO and Human Resources of the incident. For incidents involving GEI personnel an Accident Report Form will be completed and submitted to the CHSO and Human Resources within 24 hours of the incident. The Accident/Incident Report Form and the Near Miss Reporting Form can be found in Appendix D, on the GEI Health and Safety smartphone app, or on the Health and Safety page of the GEI Intranet. To report subcontractor injuries or incidents, follow the same verbal reporting procedures and submit an email describing the event to the PM and H&S Committee.

10.1 Injury Triage Service

If a GEI employee experiences a work related injury that is not life-threatening, the employee will initiate a call to Medcor Triage at 1-800-775-5866. The injured employee will detail any medical symptoms or complaints which will be evaluated by a Registered Nurse (RN) specially trained to perform telephonic triage. The RN will recommend first aid self-treatment or refer the injured employee for an off-site medical evaluation by a health professional at a clinic within GEI's workers compensation provider network. GEI employees are still required to follow our Accident Reporting procedures as listed above.

11. Decontamination Procedures

11.1 Decontamination Equipment Requirements

The following equipment, if required, should be in sufficient supply to implement decontamination procedures for GEI's equipment.

- Buckets
- Alconox™ detergent concentrate
- Hand pump sprayers
- Long handled soft bristle brushes
- Large sponges
- Cleaning wipes for respirators
- Bench or stool(s)
- Methanol and/or Nitric Acid
- Liquid detergent and paper towels
- Plastic trash bags

The Contractor performing decontamination procedures is responsible for verifying that the above materials, as required for their operation, are in sufficient supply.

12. Supplemental Contingency Plan Procedures

12.1 Hazard Communication Plan

GEI personnel have received hazard communication training as part of their annual health and safety training and new employee health and safety orientation training. Hazardous materials used on the Site will be properly labeled, stored, and handled. SDS will be available to potentially exposed employees.

12.2 Fire

In the event of a fire personnel will evacuate the area. GEI's field representative will contact the local fire department with jurisdiction and report the fire. Notification of evacuation will be made to the PM and the CHSO. The field representative will account for GEI personnel and subcontractor personnel and report their status to the PM.

12.3 Medical Support

In case of minor injuries, on-site care will be administered with the Site first aid kit. For serious injuries, call 911 and request emergency medical assistance. Seriously injured persons should not be moved, unless they are in immediate danger. Notify the PM and the CHSO of the emergency.

Section 1 and Table 1 of this HASP contain detailed emergency information, including directions to the nearest hospital, and a list of emergency services and their telephone numbers. In addition, Appendix A includes maps to the hospital and/or occupational health clinic. GEI field personnel will carry a cellular telephone.

12.4 Severe Weather

The contingency plan for severe weather includes reviewing the expected weather to determine if severe weather is in the forecast. Severe weather includes high winds over 30 miles per hour (mph), heavy rains or snow squalls, thunderstorms, tornados, and lightning storms. If severe weather is approaching, the decision to evacuate GEI personnel and subcontractor personnel from the Site will be the responsibility of GEI's field representative. Notification of evacuation will be made to the PM and the CHSO. The field representative will account for GEI personnel and subcontractor personnel and report their status to the PM. If safe, work can resume 30 minutes after the last clap of thunder or flash of lightning.

12.5 Spills or Material Release

If a hazardous waste spill or material release occurs, if safe, the SSO or their representative will immediately assess the magnitude and potential seriousness of the spill or release based on the following:

- SDS for the material spilled or released;
- Source of the release or spillage of hazardous material;
- An estimate of the quantity released and the rate at which it is being released;
- The direction in which the spill or air release is moving;
- Personnel who may be or may have been in contact with the material, or air release, and possible injury or sickness as a result;
- Potential for fire and/or explosion resulting from the situation; and
- Estimates of area under influence of release.

If the spill or release is determined to be within the on-site emergency response capabilities, the SSO will verify implementation of the necessary remedial action. If the release is beyond the capabilities of the Site personnel, personnel will be evacuated from the immediate area and the local fire department will be contacted. The SSO will notify the PM and the CHSO.

12.6 Alcohol and Drug Abuse Prevention

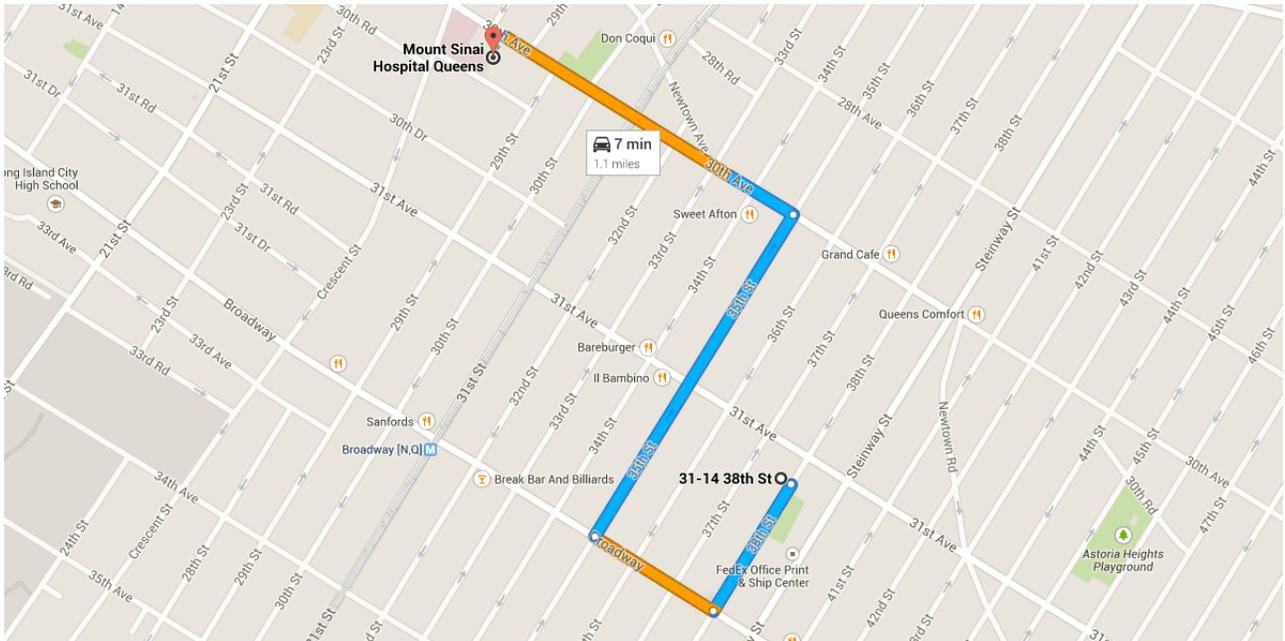
Alcohol and drugs will not be allowed on the work Site. Project personnel under the influence of alcohol or drugs will not be allowed to enter the Site.

Appendix A

Map to Hospital and Occupational Health Clinic



Directions from 31-14 38th St to Mount Sinai Hospital Queens



○ 31-14 38th St

Long Island City, NY 11103

- ↑ 1. Head southwest on 38th St toward Broadway 0.2 mi
 - ↘ 2. Take the 1st right onto Broadway 0.1 mi
 - ↘ 3. Turn right at the 3rd cross street onto 35th St 0.4 mi
 - ↙ 4. Take the 2nd left onto 30th Ave 0.4 mi
- i Destination will be on the left

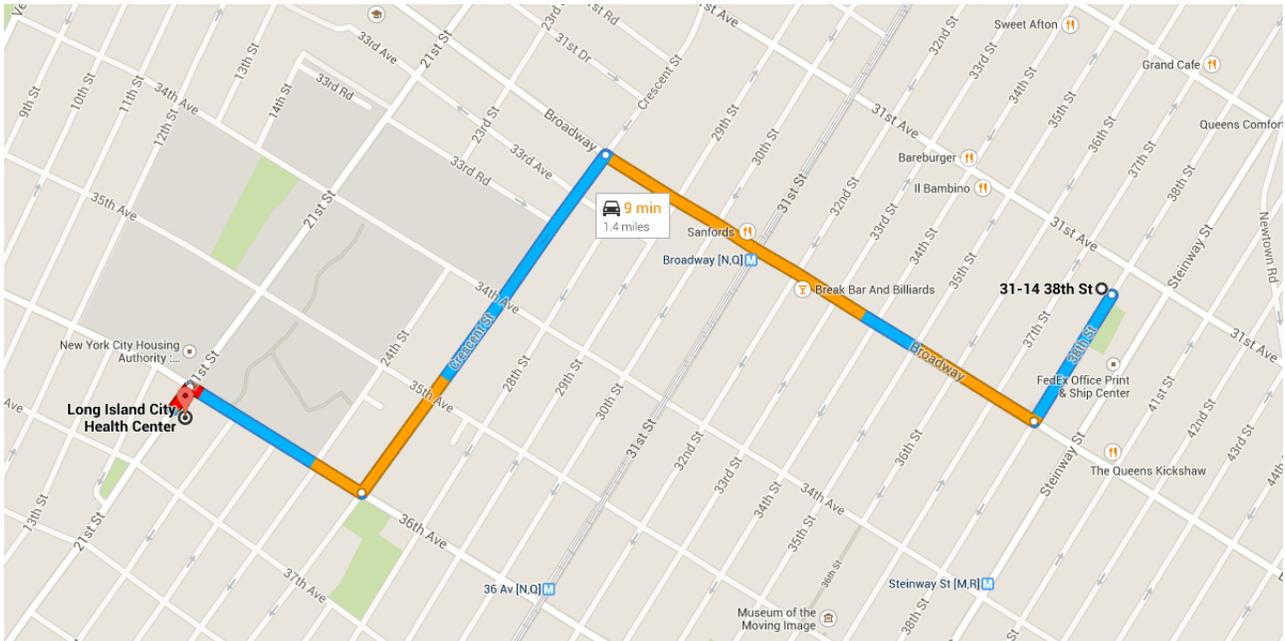
○ Mount Sinai Hospital Queens

25-10 30th Avenue, Astoria, NY 11102

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.



Directions from 31-14 38th St to Long Island City Health Center



○ 31-14 38th St

Long Island City, NY 11103

- ↑ 1. Head southwest on 38th St toward Broadway 0.2 mi
 - ↘ 2. Take the 1st right onto Broadway 0.5 mi
 - ↙ 3. Turn left onto Crescent St 0.4 mi
 - ↘ 4. Turn right onto 36th Ave 0.2 mi
 - ↙ 5. Turn left onto 21st St 154 ft
- i Destination will be on the left

⊙ Long Island City Health Center

36-11 21st Street, Long Island City, NY 11106

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the

Appendix B

Safety Data Sheets

MATERIAL SAFETY DATA SHEET

ALCONOX®

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Union REACH Regulations



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **ALCONOX®**
CHEMICAL FAMILY NAME: Detergent.
PRODUCT USE: Critical-cleaning detergent for laboratory, healthcare and industrial applications
U.N. NUMBER: Not Applicable
U.N. DANGEROUS GOODS CLASS: Non-Regulated Material
SUPPLIER/MANUFACTURER'S NAME: Alconox, Inc.
ADDRESS: 30 Glenn St., Suite 309, White Plains, NY 10603. USA
EMERGENCY PHONE: **TOLL-FREE in USA/Canada** 800-255-3924
International calls 813-248-0585
BUSINESS PHONE: 914-948-4040
DATE OF PREPARATION: May 2011
DATE OF LAST REVISION: February 2008

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a white granular powder with little or no odor. Exposure can be irritating to eyes, respiratory system and skin. It is a non-flammable solid. The Environmental effects of this product have not been investigated.

US DOT SYMBOLS

Non-Regulated

CANADA (WHMIS) SYMBOLS



EUROPEAN and (GHS) Hazard Symbols



Signal Word: **Warning!**

EU LABELING AND CLASSIFICATION:

Classification of the substance or mixture according to Regulation (EC) No1272/2008 Annex 1
EC# 205-633-8 This substance is not classified in the Annex I of Directive 67/548/EEC
EC# 268-356-1 This substance is not classified in the Annex I of Directive 67/548/EEC
EC# 231-838-7 This substance is not classified in the Annex I of Directive 67/548/EEC
EC# 231-767-1 This substance is not classified in the Annex I of Directive 67/548/EEC
EC# 207-638-8 Index# 011-005-00-2
EC# 205-788-1 This substance is not classified in the Annex I of Directive 67/548/EEC

GHS Hazard Classification(s):

Eye Irritant Category 2A

Hazard Statement(s):

H319: Causes serious eye irritation

Precautionary Statement(s):

P260: Do not breath dust/fume/gas/mist/vapors/spray
P264: Wash hands thoroughly after handling
P271: Use only in well ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection/

Hazard Symbol(s):

[Xi] Irritant

MATERIAL SAFETY DATA SHEET

ALCONOX®

Risk Phrases:

R20: Harmful by inhalation
R36/37/38: Irritating to eyes, respiratory system and skin

Safety Phrases:

S8: Keep container dry
S22: Do not breath dust
S24/25: Avoid contact with skin and eyes

HEALTH HAZARDS OR RISKS FROM EXPOSURE:

ACUTE: Exposure to this product may cause irritation of the eyes, respiratory system and skin. Ingestion may cause gastrointestinal irritation including pain, vomiting or diarrhea.

CHRONIC: This product contains an ingredient which may be corrosive.

TARGET ORGANS:

ACUTE: Eye, respiratory System, Skin

CHRONIC: None Known

SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	WT %	HAZARD CLASSIFICATION; RISK PHRASES
Sodium Bicarbonate	144-55-8	205-633-8	1044	33 - 43%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Sodium (C10 - C16) Alkylbenzene Sulfonate	68081-81-2	268-356-1	Not Listed	10 - 20%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Sodium Tripolyphosphate	7758-29-4	231-838-7	1469	5 - 15%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Tetrasodium Pyrophosphate	7722-88-5	231-767-1	1140	5 - 15%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Sodium Carbonate	497-19-8	207-638-8	1135	1 - 10%	HAZARD CLASSIFICATION: [Xii] Irritant RISK PHRASES: R36
Sodium Alcohol Sulfate	151-21-3	205-788-1	0502	1 - 5%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

SECTION 4 - FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin, or eye problems may be aggravated by prolonged contact.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure.

MATERIAL SAFETY DATA SHEET

ALCONOX®

SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT:

Not Flammable

AUTOIGNITION TEMPERATURE:

Not Applicable

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): NA Upper (UEL): NA

FIRE EXTINGUISHING MATERIALS:

As appropriate for surrounding fire. Carbon dioxide, foam, dry chemical, halon, or water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

This product is non-flammable and has no known explosion hazards.

Explosion Sensitivity to Mechanical Impact:

Not Sensitive.

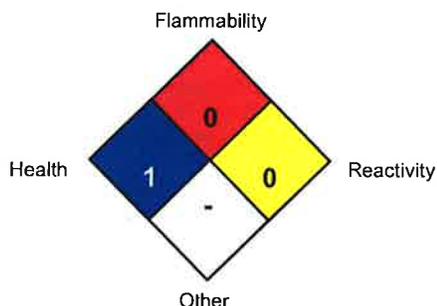
Explosion Sensitivity to Static Discharge:

Not Sensitive

SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)	1		
FLAMMABILITY HAZARD (RED)	0		
PHYSICAL HAZARD (YELLOW)	0		
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Personnel should be trained for spill response operations.

SPILLS: Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Sweep, shovel or vacuum spilled material and place in an appropriate container for re-use or disposal. Avoid dust generation if possible. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: Containers of this product must be properly labeled. Store containers in a cool, dry location. Keep container tightly closed when not in use. Store away from strong acids or oxidizers.

MATERIAL SAFETY DATA SHEET

ALCONOX®

SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

Chemical Name	CAS#	ACGIH TWA	OSHA TWA	SWA
Sodium Bicarbonate	144-55-8	10 mg/m ³ Total Dust	15 mg/m ³ Total Dust	10 mg/m ³ Total Dust
Sodium (C10 – C16) Alkylbenzene Sulfonate	68081-81-2	10 mg/m ³ Total Dust	15 mg/m ³ Total Dust	10 mg/m ³ Total Dust
Sodium Tripolyphosphate	7758-29-4	10 mg/m ³ Total Dust	15 mg/m ³ Total Dust	10 mg/m ³ Total Dust
Tetrasodium Pyrophosphate	7722-88-5	5 mg/m ³	5 mg/m ³	5 mg/m ³
Sodium Carbonate	497-19-8	10 mg/m ³ Total Dust	15 mg/m ³ Total Dust	10 mg/m ³ Total Dust
Sodium Alcohol Sulfate	151-21-3	10 mg/m ³ Total Dust	15 mg/m ³ Total Dust	10 mg/m ³ Total Dust

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Based on test data, exposure limits should not be exceeded under normal use conditions when using Alconox Detergent. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
APPEARANCE & ODOR:	White granular powder with little or no odor.
ODOR THRESHOLD (PPM):	Not Available
VAPOR PRESSURE (mmHg):	Not Applicable
VAPOR DENSITY (AIR=1):	Not Applicable.
BY WEIGHT:	Not Available
EVAPORATION RATE (nBuAc = 1):	Not Applicable.
BOILING POINT (C°):	Not Applicable.
FREEZING POINT (C°):	Not Applicable.
pH:	9.5 (1% aqueous solution)
SPECIFIC GRAVITY 20°C: (WATER =1)	0.85 – 1.1
SOLUBILITY IN WATER (%)	>10% w/w
COEFFICIENT OF WATER/OIL DIST.:	Not Available
VOC:	None
CHEMICAL FAMILY:	Detergent

MATERIAL SAFETY DATA SHEET

ALCONOX®

SECTION 10 - STABILITY and REACTIVITY

STABILITY: Product is stable

DECOMPOSITION PRODUCTS: When heated to decomposition this product produces Oxides of carbon (COx)

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong acids and strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with incompatible materials and dust generation.

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICITY DATA: Toxicity data is available for mixture:

CAS# 497-19-8 LD50 Oral (Rat)	4090 mg/kg
CAS# 497-19-8 LD50 Oral (Mouse)	6600 mg/kg
CAS# 497-19-8 LC50 Inhalation (Rat)	2300 mg/m ³ 2H
CAS# 497-19-8 LC50 Inhalation (Mouse)	1200 mg/m ³ 2H
CAS# 7758-29-4 LD50 Oral (Rat)	3120 mg/kg
CAS# 7758-29-4 LD50 Oral (Mouse)	3100 mg/kg
CAS# 7722-88-5 LD50 Oral (Rat)	4000 mg/kg

SUSPECTED CANCER AGENT: None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

IRRITANCY OF PRODUCT: Contact with this product can be irritating to exposed skin, eyes and respiratory system.

SENSITIZATION OF PRODUCT: This product is not considered a sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No information concerning the effects of this product and its components on the human reproductive system.

SECTION 12 - ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: No Data available at this time.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No evidence is currently available on this product's effects on plants or animals.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this product's effects on aquatic life.

SECTION 13 - DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

SECTION 14 - TRANSPORTATION INFORMATION

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Non-Regulated Material

HAZARD CLASS NUMBER and DESCRIPTION: Not Applicable

UN IDENTIFICATION NUMBER: Not Applicable

PACKING GROUP: Not Applicable.

DOT LABEL(S) REQUIRED: Not Applicable

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004): Not Applicable

MARINE POLLUTANT: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is not classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is not classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):

MATERIAL SAFETY DATA SHEET

ALCONOX®

This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.

SECTION 15 - REGULATORY INFORMATION

UNITED STATES REGULATIONS

SARA REPORTING REQUIREMENTS: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

SARA 311/312:

Acute Health: Yes Chronic Health: No Fire: No Reactivity: No

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): None of the ingredients are on the California Proposition 65 lists.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is categorized as a Controlled Product, Hazard Class D2B as per the Controlled Product Regulations

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION:

Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed on the AICS.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed
Australian Inventory of Chemical Substances (AICS):	Listed
Korean Existing Chemicals List (ECL):	Listed
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed
Swiss Giftlist List of Toxic Substances:	Listed
U.S. TSCA:	Listed

SECTION 16 - OTHER INFORMATION

PREPARED BY: Paul Eigbrett Global Safety Management, 10006 Cross Creek Blvd. Suite 440, Tampa, FL 33647

MATERIAL SAFETY DATA SHEET

ALCONOX®

Disclaimer: To the best of Alconox, Inc. knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type either express or implied are provided. The information contained herein relates only to this specific product.

ANNEX:

IDENTIFIED USES OF ALCONOX® AND DIRECTIONS FOR USE

Used to clean: Healthcare instruments, laboratory ware, vacuum equipment, tissue culture ware, personal protective equipment, sampling apparatus, catheters, tubing, pipes, radioactive contaminated articles, optical parts, electronic components, pharmaceutical apparatus, cosmetics manufacturing equipment, metal castings, forgings and stampings, industrial parts, tanks and reactors. Authorized by USDA for use in federally inspected meat and poultry plants. Passes inhibitory residue test for water analysis. FDA certified.

Used to remove: Soil, grit, grime, buffing compound, slime, grease, oils, blood, tissue, salts, deposits, particulates, solvents, chemicals, radioisotopes, radioactive contaminations, silicon oils, mold release agents.

Surfaces cleaned: Corrosion inhibited formulation recommended for glass, metal, stainless steel, porcelain, ceramic, plastic, rubber and fiberglass. Can be used on soft metals such as copper, aluminum, zinc and magnesium if rinsed promptly. Corrosion testing may be advisable.

Cleaning method: Soak, brush, sponge, cloth, ultrasonic, flow through clean-in-place. Will foam—not for spray or machine use.

Directions: Make a fresh 1% solution (2 1/2 Tbsp. per gal., 1 1/4 oz. per gal. or 10 grams per liter) in cold, warm, or hot water. If available use warm water. Use cold water for blood stains. For difficult soils, raise water temperature and use more detergent. Clean by soak, circulate, wipe, or ultrasonic method. Not for spray machines, will foam. For nonabrasive scouring, make paste. Use 2% solution to soak frozen stopcocks. To remove silver tarnish, soak in 1% solution in aluminum container. RINSE THOROUGHLY—preferably with running water. For critical cleaning, do final or all rinsing in distilled, deionized, or purified water. For food contact surfaces, rinse with potable water. Used on a wide range of glass, ceramic, plastic, and metal surfaces. Corrosion testing may be advisable.

Appendix C

Heat Stress and Cold Stress Guidelines

Heat Stress Guidelines

Form	Signs & Symptoms	Care	Prevention ³
Heat Rash	Tiny red vesicles in affected skin area. If the area is extensive, sweating can be impaired.	Apply mild lotions and cleanse the affected area.	Cool resting and sleeping areas to permit skin to dry between heat exposures.
Heat Cramps	Spasm, muscular pain (cramps) in stomach area and extremities (arms and legs).	Provide replacement fluids with minerals (salt) such as Gatorade.	Adequate salt intake with meals ¹ . ACCLIMATIZATION ²
Heat Exhaustion	Profuse sweating, cool (clammy) moist skin, dizziness, confusion, pale skin color, faint, rapid shallow breathing, headache, weakness, and/or muscle cramps.	Remove from heat, sit or lie down, rest, replace lost water with electrolyte replacement fluids (water, Gatorade) take frequent sips of liquids in amounts greater than required to satisfy thirst.	ACCLIMATIZATION ² Adequate salt intake with meals ¹ , only during early part of heat season. Ample water intake, frequently during the day.
Heat Stroke	HOT Dry Skin. Sweating has stopped. Mental confusion, dizziness, nausea, chills, severe headache, collapse, delirium, and/or coma.	HEAT STROKE IS A MEDICAL EMERGENCY <ul style="list-style-type: none"> • Remove from heat. • COOL THE BODY AS RAPIDLY AS POSSIBLE by immersing in cold (or cool) water, or splash with water and fan. • Call for Emergency Assistance. • Observe for signs of shock. 	ACCLIMATIZATION ² Initially moderate workload in heat (8 to 14 days). Monitor worker's activities.

Footnotes:

- 1.) American diets are normally high in salt, sufficient to aid acclimatization. However, during the early part of the heat season, (May, June), one extra shake of salt during one to two meals per day may help, so long as this is permitted by your physician. Check with your personal physician.
- 2.) ACCLIMATIZATION - The process of adapting to heat is indicated by worker's ability to perform hot jobs less fluid loss, lower concentrations of salt loss in sweat, and a reduced core (body) temperature and heart rate.
- 3.) Method to Achieve Acclimatization - Moderate work or exercise in hot temperatures during early part of heat season. Adequate salt (mineral) and water intake. Gradually increasing work time in hot temperatures. Avoid alcohol. Normally takes 8 to 14 days to achieve acclimatization. Lost rapidly, if removed from strenuous work (or exercise) in hot temperature for more than approximately 5 days.

Cold Stress Guidelines

Stress	Symptoms	What to do
Mild Hypothermia	<ul style="list-style-type: none"> • Body Temp 98 to 90°F • Shivering • Lack of coordination, stumbling, fumbling hands • Slurred speech • Memory loss • Pale, cold skin 	<ul style="list-style-type: none"> • Move to warm area • Stay active • Remove wet clothes and replace with dry clothes or blankets • Cover the head • Drink warm (not hot) sugary drink
Moderate Hypothermia	<ul style="list-style-type: none"> • Body temp 90 to 86°F • Shivering stops • Unable to walk or stand • Confused and/or irrational 	<ul style="list-style-type: none"> • All of the above, plus: <ul style="list-style-type: none"> ○ Call 911 ○ Cover all extremities completely ○ Place very warm objects, such as hot packs on the victim's head, neck, chest, and groin
Severe Hypothermia	<ul style="list-style-type: none"> • Body temp 86 to 78°F • Severe muscle stiffness • Very sleepy or unconscious • Ice cold skin • Death 	<ul style="list-style-type: none"> • Call 911 • Treat victim very gently • Do not attempt to re-warm
Frostbite	<ul style="list-style-type: none"> • Cold, tingling, stinging, or aching feeling in the frostbitten area, followed by numbness • Skin color turns red, then purple, then white or very pale skin • Cold to the touch • Blisters in severe cases 	<ul style="list-style-type: none"> • Call 911 • Do not rub the area • Wrap in soft cloth • If help is delayed, immerse in warm (not hot) water
Trench Foot	<ul style="list-style-type: none"> • Tingling, itching, or burning sensation • Blisters 	<ul style="list-style-type: none"> • Soak feet in warm water, then wrap with dry cloth bandages • Drink a warm (not hot) sugary drink

Appendix D

Forms



Accident/Incident Report Form

Please complete this form and send it to your Branch Manager, HR and CHSO **within 24 hours** of the incident.

SECTION A ACCIDENT/INCIDENT DETAILS

EMPLOYEE INFORMATION:		OTHER INJURED (IF APPLICABLE):	
Name: _____		Name: _____	
Home Address: _____ Street Address City State Zip Code		Home Address: _____ Street Address City State Zip Code	
Contact Information: () () Primary Secondary		Contact Information: () () Primary Secondary	
Date of Birth: _____		Date of Birth: _____	
Date of Hire: _____		Date of Hire: _____	
Branch: _____		Branch: _____	
Supervisor: _____		Supervisor: _____	

Date and Time Accident/Incident	Date and Time Reported	LOCATION OF INCIDENT/ACCIDENT
____ / ____ / ____ Month Day Year ____ A.M. ____ P.M.	____ / ____ / ____ Month Day Year ____ A.M. ____ P.M.	Project Name: _____ Client and Location: _____ or _____ Office Location: _____

INCIDENT TYPE: (Check All That Applies)	WITNESS INFORMATION
<input type="checkbox"/> Personal Injury/Illness <input type="checkbox"/> Vehicle Accident <input type="checkbox"/> Property Damage <input type="checkbox"/> Environmental Spill <input type="checkbox"/> Other	Name: _____ Contact Number: _____ Company: _____

WHAT HAPPENED TO THE INJURED PARTY: First Aid Administered Refused Treatment/Transport Transported to Hospital
 Returned to Work Went Home Went to Physician Unknown

Clinic/Hospital or Treating Physician: _____ Phone: _____
 Name Street Address City State Zip Code

SECTION B PERSONAL INJURY

Cause of Injury: _____

Part of Body Injured: _____ Multiple Injuries: Y N

Was PPE worn when injured? : Y N What PPE was worn? _____

WAS INJURY A RESULT OF THE USE A MOTOR VEHICLE: YES NO (If yes, complete Section C)

NEAR MISS REPORT

A near miss is a potential hazard or incident that has not resulted in any personal injury. Unsafe working conditions, unsafe employee work habits, improper use of equipment, or use of malfunctioning equipment have the potential to cause work related injuries. It is everyone's responsibility to report and/or correct these potential accidents/incidents immediately. Please complete this form as a means to report these near-miss situations. Send a copy of the completed form to the Project Manager, Regional Health and Safety Officer and the Corporate Health and Safety Officer.

Location: _____

Site Name: _____

Date: _____

Time: _____ a.m. p.m.

Weather conditions, site operations taking place during near miss. _____

Please check all appropriate conditions:

Unsafe Act

Unsafe equipment

Unsafe Condition

Unsafe use of equipment

Description of incident or potential hazard: _____

Employees or sub-contractors involved if applicable. _____

Employee Signature _____ Date _____

Print Name _____

NEAR MISS INVESTIGATION

Description of the near-miss condition: _____

Causes (primary & contributing) _____

Corrective action taken (Remove the hazard, replace, repair, or retrain in the proper procedures for the task) _____

Actions not yet taken _____

Signed: _____ Date Completed: _____

Print Name

Not completed for the following reason: _____ Date: _____

Appendix E

GEI's Health and Safety SOPs

STANDARD OPERATING PROCEDURES

SOP No. HS-001 Biological Hazards

1.1 Objective

The objective of this standard operating procedure (SOP) is to prevent or limit the potential for GEI personnel to encounter biological hazards during field activities.

1.2 General

This SOP is intended for use by employees engaged in work with the potential for contact with biological hazards such as animals, insects, plants, and sewage. The site-specific health and safety plan (HASP) should include a hazard assessment for the project that identifies the potential for encounters with biological hazards and the control methods to be implemented by GEI employees. These hazards should be reviewed in the project safety briefing and documented on the Project Safety Briefing form, found on the Health and Safety page of the GEI intranet.

1.2.1 Animals

During some site operations, animals such as stray or domesticated dogs or cats, raccoons, snakes, bears, rats, bats, etc. may be encountered. Employees should use discretion and attempt to avoid contact with animals. If these animals present a problem, efforts will be made to remove these animals from the site by contacting a licensed animal control technician.

1.2.1.1 Rabies

The rabies virus is transmitted through the bite of an infected animal or contact with saliva or brain/nervous system tissue of an infected animal. The rabies virus infects the central nervous system causing disease in the brain. The early symptoms of rabies in people are fever, headache, and general weakness or discomfort. As the disease progresses, more specific symptoms appear and may include insomnia, anxiety, confusion, slight or partial paralysis, excitation, hallucinations, agitation, hypersalivation (increase in saliva), difficulty swallowing, and hydrophobia (fear of water). Death usually occurs within days of the onset of these symptoms.

If you are bitten or think you may be exposed, wash any wounds immediately and thoroughly with soap and water. Then notify the Project Manager and Corporate Health and Safety Officer (CHSO) and go to the hospital emergency room. The doctor, possibly in consultation with the state or local health department, will decide if you need a rabies vaccination. Decisions to start vaccination will be based on your type of exposure and the animal you were exposed to, as well as laboratory and surveillance information for the

geographic area where the exposure occurred. An Accident Report Form should be completed and submitted per GEI's accident reporting procedures.

1.2.2 Insects

Insects, including bees, wasps, hornets, mosquitoes, ticks, spiders, etc may be present at a job site making the chance of a bite/sting possible. Some individuals may have a severe allergic reaction to an insect bite or sting that can result in a life threatening condition. Some insect bites can transmit diseases such as Lyme disease or a virus such as West Nile. The following is a list of preventive measures:

- Apply insect repellent prior to performing field work and as often as needed throughout the work shift
- Wear proper protective clothing (work boots, socks and light colored clothing)
- Wear shoes, long pants with bottoms tucked into boots or socks, and a long-sleeved shirt when outdoors for long periods of time, or when many insects are most active (between dawn and dusk).
- When walking in wooded areas, avoid contact with bushes, tall grass, or brush as much as possible
- Field personnel who may have insect allergies should have bee sting allergy medication on site and should provide this information to the Site Safety Officer (SSO) and the CHSO prior to commencing work.
- Field personnel should perform a self-check at the end of the day for ticks.

1.2.3 Tick-borne Diseases

Lyme disease is caused by infection from a deer tick that carries a spirochete. During the painless tick bite, the spirochete may be transmitted into the bloodstream often after feeding on the host for 12 to 24 hours. The ticks that cause the disease are often no bigger than a poppy seed or a comma in newsprint. The peak months for human infection are from May to September.

Symptoms appear in three stages. First symptoms usually appear from 2 days to a few weeks after a person is bitten by an infected tick. Symptoms usually consist of a ring-like red rash on the skin where the tick was attached. The rash is often bulls-eye like with red around the edges and clear in the center. The rash may be warm, itchy, tender, and/or "doughy." Unfortunately, this rash appears in only 60 to 80 percent of infected persons. An infected person also has flu-like symptoms of a stiff neck, chills, fever, sore throat, headache, fatigue and joint pain. These symptoms often disappear after a few weeks.

The second stage symptoms, which occur weeks to months later include meningitis, severe headache, drooping of the muscles on the face, called Bell's Palsy, encephalitis, numbness, withdrawal and lethargy. These symptoms may last for several weeks to several months. Third stage symptoms, which occur months or years later include arthritis, heart problems, and loss of memory. The third stage symptoms may mimic multiple sclerosis and Alzheimer's disease.

Personnel should check themselves when in areas that could harbor deer ticks, wear light color clothing and visually check themselves and their buddy when coming from wooded or vegetated areas. If a GEI employee has been bitten by a tick, the CHSO should be contacted immediately. An Accident Report form must be completed by the individual in compliance with the Accident Reporting procedure outlined in the Corporate Health and Safety Manual.



From left to right: The deer tick adult female, adult male, nymph, and larva on a centimeter scale.

The tick can be removed by pulling gently at the head with tweezers. If tweezers are not available, cover your fingers with tissue paper and use them to grasp the tick. It is important to grasp the tick as close to the site of attachment and use a firm steady pull to remove it. Wash hands immediately after with soap and water. The affected area should then be disinfected with an antiseptic wipe. All mouth parts must be removed from the skin. If the tick is removed by breaking off the mouth parts, an irritation or infection may occur. Also, the organism that is causing the disease can still enter the body through the skin. The employee will be offered the option for medical treatment by a physician, which typically involves antibiotics. If personnel feel sick or have signs similar to those above, they should notify the SSO and the CHSO immediately.

Treatment with antibiotics is effective and recovery is usually complete. In the first stage antibiotics are usually given orally. Second and third stage treatment, however is prolonged and recovery may take longer. Antibiotic treatment is usually provided intravenously for second and third stage Lyme disease.

The deer tick can also cause **Babesiosis**, an infection of the parasite *Babesia Microti*. Symptoms of Babesiosis may not be evident, but may also include fever, fatigue and

hemolytic anemia lasting from several days to several months. Babesiosis is most commonly diagnosed in the elderly or in individuals whose immune systems are compromised.

Ehrlichiosis is a tick-borne disease which can be caused by either of two different organisms. Human monocytic ehrlichiosis (HME) is caused by *Ehrlichia chaffeensis*, which is transmitted by the lone star tick (*Amblyomma americanum*). Human granulocytic anaplasmosis (HGA), previously known as human granulocytic ehrlichiosis (HGE), is caused by *Anaplasma phagocytophilia*, which is transmitted by the deer tick (*Ixodes scapularis*).

In New York State, most cases of ehrlichiosis have been reported on Long Island and in the Hudson Valley. Ehrlichiosis is transmitted by the bite of infected ticks, including the deer tick and the lone star tick. The symptoms of HME and HGE are the same and usually include fever, muscle aches, weakness and headache. Patients may also experience confusion, nausea, vomiting and joint pain. Unlike Lyme disease or Rocky Mountain spotted fever, a rash is not common. Infection usually produces mild to moderately severe illness, with high fever and headache, but may occasionally be life-threatening or even fatal. Symptoms appear one to three weeks after the bite of an infected tick. However, not every exposure results in infection.

Rocky Mountain spotted fever (RMSF) is a tick-borne disease caused by a rickettsia (a microbe that differs somewhat from bacteria and virus). Fewer than 50 cases are reported annually in New York State. In the eastern United States, children are infected most frequently, while in the western United States, disease incidence is highest among adult males. Disease incidence is directly related to exposure to tick-infested habitats or to infested pets. Most of the cases in New York State have occurred on Long Island. RMSF is characterized by a sudden onset of moderate to high fever (which can last for two or three weeks), severe headache, fatigue, deep muscle pain, chills and rash. The rash begins on the legs or arms, may include the soles of the feet or palms of the hands and may spread rapidly to the trunk or rest of the body. Symptoms usually appear within two weeks of the bite of an infected tick.

*(Information on Ehrlichiosis, Babesiosis, and Rocky Mountain Spotted Fever was derived from the New York State Department of Health).

1.2.4 West Nile Virus

West Nile Virus (WNV) is a mosquito-borne infection transmitted through the bite of an infected mosquito. The symptoms of WNV can be asymptomatic (no symptoms) or in more serious cases can lead to West Nile Fever. West Nile Fever can include fever, headache, tiredness, body ache, an occasional rash on the trunk of the body, and swollen lymph glands. In severe cases, people have developed West Nile Encephalitis or

Meningitis which symptoms include fever, headache, neck stiffness, tremors, coma and in some cases death. The incubation period for the disease is usually 2 to 15 days. The symptoms can range from a few days to several weeks. Most mosquitoes are not infected and the chance of infection from a mosquito bite of an on-site employee is very small.

The following precautions will be used to help reduce the risk of mosquito bites:

- Reduce mosquito-breeding areas by making sure wheelbarrows, buckets, and other containers are turned upside down when not used so that they do not collect standing water.
- Wear shoes, long pants with bottoms tucked into boots or socks, and a long-sleeved shirt when outdoors for long periods of time, or when many mosquitoes are most active (between dawn and dusk).
- Use mosquito repellent according to the manufacturer's directions when outdoors for long periods of time and when mosquitoes are most active.

Centers for Disease Control and Prevention (CDC) evaluation of information contained in peer-reviewed scientific literature and data available from the Environmental Protection Agency (EPA) has identified several EPA registered products that provide repellent activity sufficient to help people avoid the bites of disease carrying mosquitoes. Products containing these active ingredients typically provide reasonably long-lasting protection:

- **DEET** (Chemical Name: N,N-diethyl-m-toluamide or N,N-diethyl-3-methylbenzamide) 20 to 30 percent DEET
- **Picaridin** (KBR 3023, Chemical Name: 2-(2-hydroxyethyl)-1-piperidinecarboxylic acid 1-methylpropyl ester)
- **Oil of Lemon Eucalyptus** or **PMD** (Chemical Name: para-Menthane-3,8-diol) the synthesized version of oil of lemon eucalyptus
- **IR3535** (Chemical Name: 3-[N-Butyl-N-acetyl]-aminopropionic acid, ethyl ester)
- **Permethrin** (3-Phenoxybenzyl (1RS)-cis,trans-3-(2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate) - Permethrin kills ticks and can be used on clothing (but not skin)

EPA characterizes the active ingredients DEET and Picaridin as “conventional repellents” and Oil of Lemon Eucalyptus, PMD, and IR3535 as “biopesticide repellents”, which are derived from natural materials.

In general, higher concentrations of active ingredient provide longer duration of protection, regardless of the active ingredient, although concentrations above approximately 50 percent do not offer a marked increase in protection time. Products with less than 10 percent active ingredient may offer only limited protection, often from 1 to 2 hours. Products that offer sustained release or controlled release (micro-encapsulated) formulations, even with lower active ingredient concentrations, may provide longer protection times. Regardless of what product you use, if you start to get mosquito bites reapply the repellent according to the label instructions or remove yourself from the area with biting insects if possible.

Clothing and other products can be purchased pre-treated, or products can be treated using EPA-registered products. Permethrin is the only pesticide approved by the EPA for these uses. Permethrin binds tightly to the fabrics, resulting in little loss during washing and minimal transfer to the skin. Permethrin is poorly absorbed through the skin, although sunscreens and other products may increase the rate of skin absorption.

If you decide to use permethrin-treated clothing, consider these tips:

- Read the application instructions carefully and apply the product according to the label directions. Do not over-treat products.
- Permethrin treatments are only intended for use on fabrics; do not apply them directly to the skin or other items.
- Do not apply permethrin to clothing while it is being worn.
- Apply the products outdoors in well ventilated areas that are protected from wind.
- Hang treated fabrics outdoors and allow them to dry completely before wearing them.
- Wash permethrin treated clothing separately from other clothing items.

1.2.5 Plants

The potential for contact with poisonous plants, such as poison ivy, sumac, and oak, exists when performing fieldwork in wooded or boggy areas. These plants can cause allergic reaction when in contact with the leaves or vines.

Poison ivy can be found as vines on tree trunks or as upright bushes. Poison ivy consists of three leaflets with notched edges. Two leaflets form a pair on opposite sides of the stalk, and the third leaflet stands by itself at the tip. Poison ivy is red in the early spring and turns shiny green later in the spring. Poison ivy grows throughout much of North America, including all states east of the Rocky Mountains. It is normally found in

wooded areas, especially along edge areas where the tree line breaks and allows sunshine to filter through. It also grows in exposed rocky areas, open fields and disturbed areas.

Poison sumac can be present in the form of a flat-topped shrub or tree. It has fern-like leaves, which are velvety dark green on top and pale underneath. The branches of immature trees have a velvety "down." Poison sumac has white, "hairy" berry clusters. Poison sumac grows exclusively in very wet or flooded soils, usually in swamps and peat bogs, in the eastern United States.

Poison oak can be present as a sparingly branched shrub. Poison oak can grow anywhere in the United States with the exception of Hawaii, Alaska, and some southwest areas that have desert climates. Poison oak is similar to poison ivy in that it has the same leaflet configuration; however, the leaves have slightly deeper notches.

Keep in mind that for each of these plants,



Poison Oak



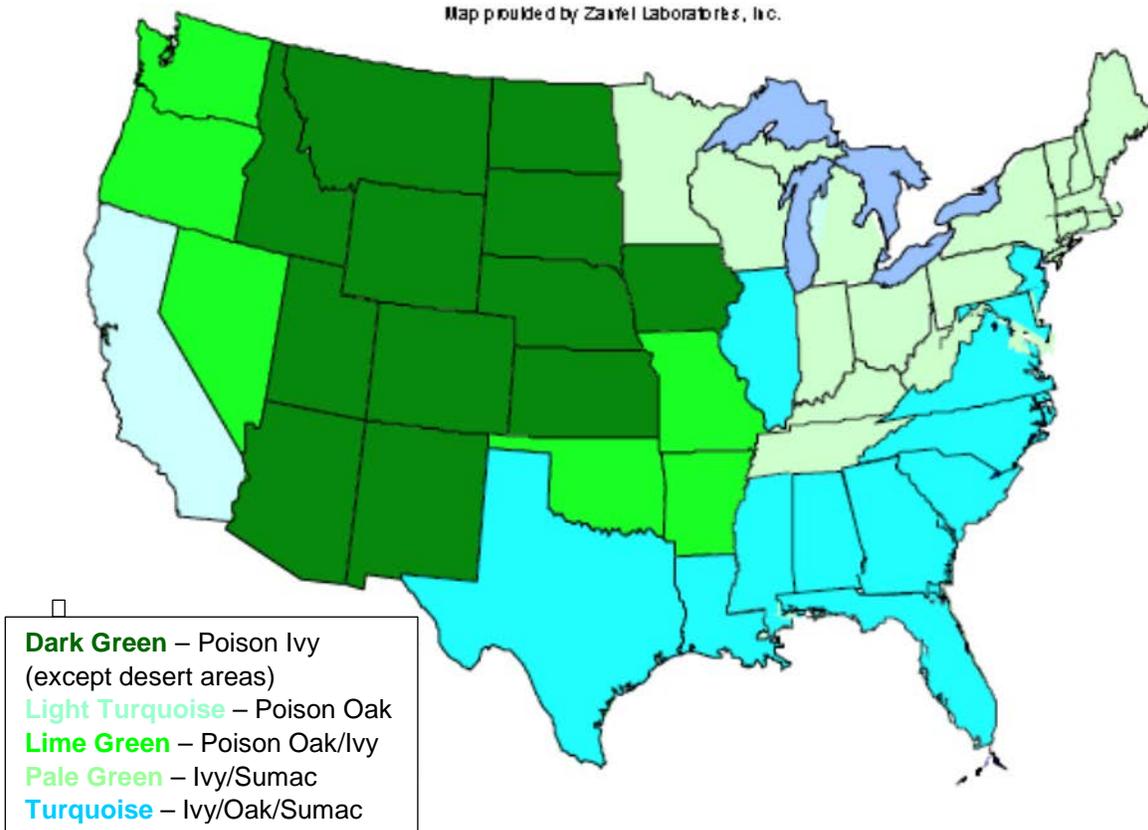
Poison Ivy



Poison Sumac

U.S. Prevalence of Poison Ivy, Oak & Sumac

Map provided by Zante Laboratories, Inc.



Source: United States Department of Agriculture Plant Database, <http://plants.usda.gov/>

To prevent exposure to these poisonous plants:

- Barrier skin creams, such as lotion containing bentoquatam (Tecnu®), may offer some protection prevent the occurrence of exposure symptoms.
- Wear long sleeves, long pants, boots, and gloves.

Contact with poison ivy, sumac, or oak may lead to a skin rash, characterized by reddened, itchy, blistering skin which needs first aid treatment. Susceptible individuals should identify themselves to the SSO or GEI Project Manager. If you believe you have contacted one of these plants:

- Immediately wash skin thoroughly with soap and water, taking care not to touch your face or other body parts.
- Wash exposed clothing separately in hot water with detergent.
- After use, clean tools, and soles of boots with rubbing alcohol or soap and lots of water. Urushiol can remain active on the surface of objects for up to 5 years.

- If a rash occurs, contact the CHSO and complete and submit an Accident Report Form.

1.2.6 Sewage and Bacterial Impacted Sediments

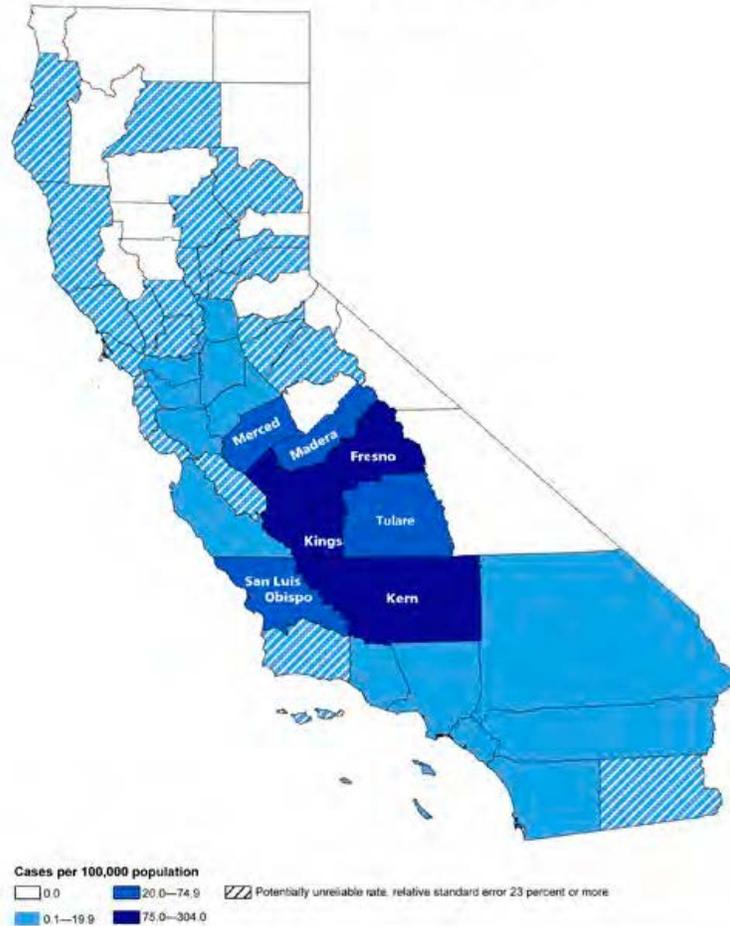
Some project work may be conducted at sites that serve or have served as a combined sewer overflow (CSO) and consequently may have received untreated sanitary sewage from numerous sources. Decomposed sewage can potentially be encountered within sites and their sediments. Sediments could contain soil and marine microorganisms, and bacterium associated with sewage. Many of these bacterium can cause illness through ingestion, direct contact, or the inhalation of a bio-aerosol. Potential respiratory exposure to biological agents can also occur through the inhalation of aerosols produced during sediment handling activities. Personal protective equipment as identified in the site-specific HASP will be worn to minimize potential exposures. Employees will follow the decontamination or disposal procedures identified in the HASP.

1.2.6 Fungal Spores in Soil – Valley Fever

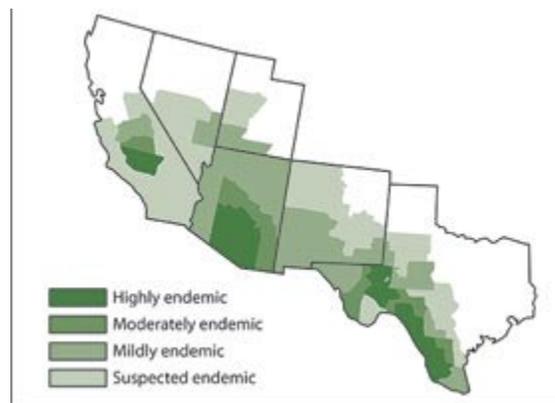
Valley Fever is an illness that usually affects the lungs. It is caused by the fungus *Coccidioides immitis* that lives in the top 2 to 12 inches of soil in many parts of California. When fungal spores are present, any work activity that disturbs the soil, such as digging, grading or other earth moving operations, or vehicle operation on dirt roads, can cause the spores to become airborne, therefore increasing the risk of Valley Fever. All employees on sites where the fungus is present, and who are exposed to dusty conditions and wind-blown dusts are at increased risk of becoming infected.

Valley Fever fungal spores are too small to be seen, and there is no reliable way to test the soil for spores before working in a particular place. Valley Fever can be found throughout the southwestern United States, parts of Mexico and South America. Some California counties consistently have Valley Fever fungus present in the soil. In these regions Valley Fever is considered endemic. Health departments track the number of cases of Valley Fever illness that occur. This information is used to map illness rates as seen on the figure below.

California county-specific coccidioidomycosis incidence rates, 2011



Center for Infectious Diseases - Division of Communicable Disease Control
Infectious Diseases Branch - Surveillance and Statistics Section



When present, symptoms usually occur between seven to 21 days after breathing in spores, and can include:

- Cough
- Fever
- Chest pain
- Headache
- Muscle aches
- Rash on upper trunk or extremities
- Joint pain in the knees or ankles
- Fatigue

Symptoms of Valley Fever can be mistaken for other diseases such as the flu (influenza) and TB (tuberculosis), so it is important for employees to obtain medical care for an accurate diagnosis and possible treatment.

While there is no vaccine to prevent Valley Fever, the following steps are important to take in order to limit risk:

- Determine if the worksite is in an endemic area. Contact the local health department for more information about the risk in the county GEI is performing work that may disturb soils.
- Prepare work plans and work practices that reduce employee's exposure, which may include:
 - Provide air conditioned cabs for vehicles that generate heavy dust and make sure employees keep windows and vents closed.
 - Suspend work during heavy winds.
- When exposure to dust is unavoidable, provide National Institute for Occupational Safety and Health (NIOSH)-approved respiratory protection with particulate filters rated as N95, N99, N100, P100, or High Efficiency Particulate Air (HEPA). Employers must develop and implement a respiratory protection program in accordance with California's Occupational Safety and Health Administration (Cal/OSHA's) Respiratory Protection standard (8 CCR 5144).
- Take measures to reduce transporting spores off site, such as:
 - Clean tools, equipment, PPE and vehicles before transporting off site.
 - If employee's clothing is likely to be heavily contaminated with dust, provide coveralls and change rooms, and showers where possible.

1.3 Limitations

Follow safety procedures as defined in the site-specific HASP. Appropriate PPE must be worn correctly to provide the intended level of protection.

1.4 References

<http://www.cdc.gov/ncidod/dvbid/westnile/index.htm>

http://www.cdc.gov/ncidod/dvbid/westnile/qa/insect_repellent.htm

<http://www.epa.gov/pesticides/health/mosquitoes/insectrp.htm>

<http://www.cdc.gov/niosh/topics/lyme/>

Protecting Yourself From Ticks and Mosquitoes, NIOSH Fast Facts, Publication No. 2010-119

<http://npic.orst.edu/pest/mosquito/ptc.html>

1.5 Attachments

None

1.6 Contact

GEI Corporate Health & Safety Officer

GEI East – North Regional Health & Safety Officer

GEI East – South Regional Health & Safety Officer

GEI Central Regional Health & Safety Officer

GEI West Regional Region Health & Safety Officer

STANDARD OPERATING PROCEDURES

SOP No. HS-002 Infectious Materials and Bloodborne Pathogens Exposure Control Plan

1.1 Objective

GEI personnel may come into contact with potentially infectious agents when rendering first aid or CPR. Employees may also come into contact with these materials when working at certain contaminated sites (i.e., urban sites or sewer outfall exposures). This SOP has been developed to minimize the potential for exposure to employees who may contact, directly or indirectly, infectious agents.

1.2 General

- Potential exposures will be reported to the Project Manager and/or Corporate Health and Safety Officer (CHSO). Determination of actual exposure will be made by a physician in coordination with AllOne Health.
- Employees who may potentially be exposed to known infectious materials and/or bloodborne pathogens will be notified of the hazards in a pre-entry briefing.
- Universal Precautions (i.e., treat all potentially infectious materials as if it were infected) will be used at all times.

1.3 Policy

1.3.1 Standard Procedures

All sampling of potentially infectious materials will be performed in a manner that minimizes the potential for creating splashes, droplets, or aerosols. Mechanical pipetting devices will be used for manipulating all sanitary sewer effluent. Mouth pipetting is prohibited.

The use of glassware or equipment with sharp or pointed edges will be kept at a minimum to reduce the potential of injury that would create a direct route of entry into the body for any infectious materials.

All minor cuts, scratches, or other breaks in the skin barrier will be covered prior to the handling of infectious materials. Employees experiencing exudative lesions or weeping dermatitis will refrain from direct contact with infectious materials.

Eating, drinking, smoking, or application of cosmetics is not permitted in areas where potentially infectious materials are handled or sampled.

Employees will wash and disinfect their hands, face, or any other potentially contaminated skin surfaces upon completing the handling of infectious or potentially infectious agents or after rendering first aid.

1.3.2 Personal Protective Equipment (PPE)

PPE will be worn to reduce the potential of exposures to splashes or aerosols. At a minimum, this equipment will include safety glasses and appropriate gloves, but may also require the use of face, respiratory, foot, and full-body protection. Refer to the site-specific Health and Safety Plan for specific PPE requirements.

Gloves used in the handling or sampling of infectious materials will be appropriately disposed of and not reused.

1.3.3 Medical Monitoring

Medical monitoring is required for an employee when a potential workplace exposure has occurred. The employee must notify the CHSO and Human Resources regarding the potential exposure as soon as possible. For infectious agents in which a medically accepted vaccination has been developed (e.g., HBV) potentially exposed employees will be given the option to receive an inoculation at no cost. Employees who have been exposed will be given the option to receive a confidential medical evaluation at no cost. All required records for exposed employees will be kept confidential.

1.3.4 Training

All employees with a reasonable risk for exposure must attend Bloodborne Pathogen training covering the following topics:

- An explanation of the OSHA bloodborne pathogen standard.
- A general explanation of bloodborne diseases.
- An explanation of the modes of transmission of bloodborne diseases.
- An explanation of the Exposure Control Plan.
- Appropriate methods for recognizing tasks that involve potential exposure.
- An explanation of the use and limitations of methods to prevent exposure.
- Proper types, use, handling, decontamination, and disposal of PPE.
- The availability of HBV vaccines and the procedures for obtaining a vaccination.
- Appropriate actions to take during an emergency involving bloodborne pathogens.
- Post-exposure procedures.

- An explanation of required signs and labels.

1.4 Reference

OSHA 29 CFR 1910.1030 - Bloodborne Pathogens.

1.5 Contact

GEI Corporate Health and Safety Officer
Atlantic Regional Health and Safety Officer
New England Regional Health and Safety Officer
Midwest Regional Health and Safety Officer
Western Regional Region Health and Safety Officer

STANDARD OPERATING PROCEDURES

SOP NO. HS-003 Container Management

1.1 Objective

This standard operating procedure (SOP) has been developed to minimize the potential for injuries to GEI employees performing container and drum handling and sampling, through proper use of engineering and administrative controls, personal protective equipment (PPE), and education.

1.2 General

This SOP is intended for use by employees engaged in work with the management of containers that may contain hazardous substances or contaminated media. The site-specific health and safety plan (HASP) should include a hazard assessment and control methods to be implemented by GEI employees. These hazards should be reviewed in the project safety briefing and documented on the Project Safety Briefing form, found on the Health and Safety page of the GEI intranet.

Hazardous substances and contaminated media will be handled, transported, labeled, and disposed of in accordance with this paragraph. Drums and containers will meet the appropriate United States Department of Transportation (DOT), Occupational Safety and Health Administration (OSHA), and Environmental Protection Agency (EPA) regulations for the wastes that they contain.

Site operations will be organized to minimize the amount of drum or container movement. Prior to movement of drums or containers, employees exposed to the transfer operation will be notified of the potential hazards associated with the contents of the drums or containers. Unlabeled drums and containers will be considered to contain hazardous substances and handled accordingly until the contents are positively identified and labeled.

DOT specified salvage drums or containers and suitable quantities of proper absorbent will be kept available and used in areas where spills, leaks, or ruptures may occur. Where spills may occur, a spill containment program, which may be part of the HASP, will be implemented to contain and isolate the entire volume of the hazardous substance being transferred.

1.3 Opening Drums and Containers

The following procedures will be followed in areas where drums or containers are being opened:

- Employees not actually involved in opening drums or containers will be kept a safe distance from the drums or containers being opened.
- If employees must work near or adjacent to drums or containers being opened, a suitable shield that does not interfere with the work operation will be placed between the employee and the drums or containers being opened to protect the employee in case of accidental release.
- GEI employees will not handle or attempt to open bulging containers. Employees will not stand upon or work from drums or containers. GEI will contract with a hazardous waste company to handle, manage, and dispose of a bulging drum.

1.4 Material Handling Equipment

Material handling equipment, such as drum dollies, used to transfer drums and containers will be selected, positioned, and operated to minimize sources of ignition.

1.5 Radioactive Wastes

GEI does not routinely handle or manage radioactive waste. If required to do so for a project, procedures will be approved by the Corporate Health and Safety Officer (CHSO) and Regional Health and Safety Officer (RHSO).

1.6 Shock-Sensitive Wastes

GEI employees will not handle shock-sensitive waste. Shock-sensitive waste or chemicals may explode with friction, movement or heat. Some chemicals are shock-sensitive by nature-, others become shock-sensitive through drying, decomposition, or slow reactions with oxygen, nitrogen, or the container. Some chemicals that are, or can, become shock-sensitive will have that hazard noted in the safety data sheet (SDS).

- Drums and containers containing packaged laboratory wastes will be considered to contain shock-sensitive or explosive materials until they have been characterized. *Caution: Shipping of shock-sensitive wastes may be prohibited under U.S. Department of Transportation regulations. Shippers will refer to 49 CFR 173.21 and 173.50.*

1.7 Laboratory Waste Packs

GEI employees will not handle or open laboratory waste packs.

1.8 Sampling of Drum and Container Contents

Sampling of containers and drums will be done in accordance with a site-specific sampling plan that will be developed in conjunction with a site-specific HASP.

1.9 Staging Areas

Drums and containers will be identified and classified prior to packaging for shipment. Drum or container staging areas will be kept to a minimum number as approved by the client to safely identify and classify materials and prepare them for transport. Staging areas will be provided with adequate access and egress routes. Bulking of hazardous wastes will be permitted only after a thorough characterization of the materials has been completed and approved by the Client. GEI employees will not sign manifests unless a written authorization agreement is in place with the Client.

1.10 Tank and Vault Procedures

GEI employees do not routinely sample vaults and tanks. Entry procedures will be coordinated and approved by the CHSO and RHSO.

1.11 Limitations

Follow safety procedures as defined in the site-specific HASP. Appropriate PPE must be worn correctly to provide the intended level of protection.

1.12 References

OSHA 1910.120 Hazardous Waste Operations and Emergency Response (j) Handling of Drums and Containers.

1.13 Attachments

None

1.14 Contact

GEI Corporate Health & Safety Officer
GEI East – North Regional Health & Safety Officer
GEI East – South Regional Health & Safety Officer
GEI Central Regional Health & Safety Officer
GEI West Regional Region Health & Safety Officer

STANDARD OPERATING PROCEDURE

HS-004 Driver Safety

1.1 Objective

GEI has implemented a Safe Driving Program to encourage safe driving habits and promote the ongoing safety of our staff and the communities where we work. For more information, refer to the Operation of Vehicles section of GEI's Employee Handbook.

This standard operating procedure (SOP) provides requirements and recommendations to minimize the potential risks while operating or riding in a motor vehicle.

1.2 General

GEI employees will adhere to the following requirements when operating a vehicle while conducting business on behalf of GEI. These requirements apply to GEI owned, rental, and personal vehicles used to conduct GEI business:

- Employees must maintain a valid and current driver's license.
- Employees using a personal vehicle for work-related travel must have proper insurance coverage that meets the requirements in the state in which they reside.
- Employees must wear their safety belt while in a moving vehicle.
- Vehicle accidents will be reported in accordance with GEI's accident reporting procedures.
- Vehicles will be properly maintained and safely operated (refer to GEI's Fleet Maintenance Program).
- Employees will follow safe driving behaviors, which include limiting distractions such as manipulating radios or other equipment that may cause a distraction. Employees should not exceed the posted speed limit and should maintain a safe distance between other vehicles.
- When parking a vehicle at a job site, the employee should position the vehicle in a manner to reduce or eliminate the need to operate the vehicle in reverse. A safety cone should be placed at the rear of the vehicle after parking the vehicle and be removed prior to moving the vehicle. This procedure makes the employee aware of other vehicles, equipment, and structures within the backup radius of the vehicle.

When driving a rental vehicle or GEI vehicle that you are unfamiliar with orient yourself to the vehicle by:

- Walking around the vehicle to observe the condition of the vehicle and hazards that could be within the travel path.
- Becoming familiar with the size of the vehicle.

- Adjusting mirrors (rear and side).
- Becoming familiar with dashboard, center console, and steering controls.
- Locating the turn signals, windshield wipers, lights, emergency flashers, and the heating, air conditioning, and defrost controls.

1.3 Driving Defensively

Driving defensively means not only taking responsibility for yourself and your actions but also keeping an eye on "the other guy." Good defensive drivers may be able to anticipate what the other driver will do next. GEI recommends the following guidelines to help reduce your risks on the road.

Do not start the vehicle until each passenger and their belongings are secured in the vehicle.

- Remember that driving above or below the speed limit can increase the likelihood of a collision.
- If you notice that a car is straddling the center line, weaving, making wide turns, stopping abruptly or responding slowly to traffic signals, the driver may be impaired or using a cellular telephone.
- Avoid an impaired driver by turning right at the nearest corner or exiting at the nearest exit. If it appears that an oncoming car is crossing into your lane, pull over to the roadside, sound the horn and flash your lights.
- Notify the police if you observe motorist who is driving suspiciously.
- Follow the rules of the road. Do not contest the "right of way" or try to race another car during a merge. Be respectful of other motorists.
- Allow large vehicles, including tractor trailers, extra breaking distance, turning radius, and avoid traveling in their blind spots.
- Do not follow too closely. GEI employees should use a "three-second following distance" or a "three-second plus following distance."
- While driving be cautious, aware, and responsible.
- Use extra caution and reduce speed in construction areas and school zones.
- Be aware of pedestrians, bicyclists, and motorcyclists.

1.4 Cellular Phone Use and Other Distractions

Refer to the Human Resources policy on use of cellular telephones while operating a vehicle on company business.

1.5 Drugs and Alcohol

The use of illegal drugs or alcohol is prohibited when driving a vehicle on GEI business. Be aware of the side effects of prescription and over-the-counter medications which can impair an employee's ability to drive.

1.6 Adverse Driving Conditions

1.6.1 *Driving at Night*

Vision maybe limited at night due to impairment of the driver's depth perception, color recognition, and peripheral vision. Another factor adding danger to night or early morning driving is fatigue. Drowsiness makes driving more difficult by dulling concentration and slowing reaction time.

Effective measures to minimize these hazards by preparing your car and following guidelines:

- Have your headlights properly aimed. Misaimed headlights blind other drivers and reduce your ability to see the road.
- Alcohol severely impairs your driving ability and acts as a depressant.
- Avoid smoking when you drive. Smoke's nicotine and carbon monoxide hamper night vision.
- Lights will not help the driver see better in early twilight, but they will make it easier for other drivers to see you. Do not overdrive your headlights. You should be able to stop inside the illuminated area. If you do not, you create a blind crash area in front of your vehicle.
- If an oncoming vehicle does not lower beams from high to low, avoid glare by watching the right edge of the road and using it as a steering guide.
- Make frequent stops for light snacks and exercise. If you are too tired to drive, stop in a safe area and get some rest.
- Observe driving safety as soon as the sun goes down. Twilight is one of the most difficult times to drive, because your eyes are constantly changing to adapt to the growing darkness.

1.6.2 *Snow/Freezing Conditions*

When snow and ice are present, be prepared by following these winter driving safety tips.

1.6.2.1 Prepare the Vehicle Before a Snowstorm

- Check under the hood and take a look at the vehicles cooling system. Make sure the vehicle contains adequate antifreeze and the hoses are in good condition.
- Test heaters and defrosters ahead of time to make sure they are in good working condition.
- Test your windshield wipers and check the condition of your wiper blades. If wipers leave streaks on your windshields, replace the blades.
- It is recommended that a windshield washer/antifreeze solution is used during winter conditions.
- Check your lights and periodically clear them of snow and dirt.
- Car batteries need extra power in cold conditions. Make sure the battery's terminals are clean and cables are secure.

- Keep your gas tank at least half full in the winter to help avoid gas line freeze up.

1.6.2.2 Driving During and After a Snowstorm

- Wear sunglasses to aid in limiting reflection from snow.
- Be aware of blind spots created by snow banks.
- Be extra cautious of pedestrians and other vehicles in intersections.
- Allow extra time for braking and increase the distance between you and the car ahead of you.
- Reduce your speed and do not exceed the posted limit.
- If you start to lose traction take your foot off the gas and gradually reduce your speed. Accelerate slowly once you feel traction is regained.
- If you start to skid, steer in the direction of the skid. Remember, steering can be more important than braking on slippery roads.

1.6.3 Driving In the Rain

To prevent losing control of your car on wet pavement, take these preventive measures.

- Prevent skids by driving slowly and carefully, especially on curves.
- Steer and brake with a light touch.
- When you need to stop or slow, do not brake hard or lock the wheels.
- Maintain mild pressure on the brake pedal.

If you skid, ease your foot off the gas, and carefully steer in the direction you want the front of the car to go. For cars without anti-lock brakes, avoid using your brakes. This procedure, known as "steering into the skid," will bring the back end of the car in line with the front. If your car has anti-lock brake systems (ABS), brake firmly as you "steer into the skid."

Hydroplaning happens when the water in front of your tires builds up faster than your car's weight can push it out of the way. The water pressure causes your car to lose contact with the road surface and slide on a thin layer of water between your tires and the road. At this point, your car can be completely out of contact with the road, and you are in danger of skidding or drifting out of your lane, or even off the road.

To avoid hydroplaning, keep the tires properly inflated and maintain good tread on the tires. If tires need to be replaced on a company vehicle, notify the branch manager or their designee. Slow down when roads are wet, and stay away from puddles. Try to drive in the tire tracks left by the cars in front of you. If you begin to hydroplane, do not brake or turn suddenly. This could throw your car into a skid. Ease your foot off the gas until the car slows and you can feel the road again. If you need to brake, do it gently with light pumping actions. If your car has ABS, then brake normally; the car's computer will mimic a pumping action, when necessary.

If weather conditions worsen to the point where the driver is not comfortable driving, pull the vehicle over to a safe location until conditions improve. Do not drive during severe weather conditions. Do not attempt to drive on roads with standing water or that have been flooded. Find an alternate route if these conditions exist.

1.6.4 Off Road

If operation of a vehicle is required off publicly or privately maintained roads or in situations where four-wheel-drive vehicles are required, the appropriate vehicle for the situation will be used.

1.7 Driver Training

GEI employees are required to complete driver safety training every 3 years. Employees will complete the examination at the end of each module and forward the training certificate to Human Resources.

1.8 Limitations

Follow safety procedures as defined in the site-specific HASP.

1.9 References

National Safety Council
Oklahoma Safety Council
GEI Consultants, Inc. Employee Handbook

1.10 Attachments

1.11 Contact

GEI Corporate Health & Safety Officer
GEI East – North Regional Health & Safety Officer
GEI East – South Regional Health & Safety Officer
GEI Central Regional Health & Safety Officer
GEI West Regional Region Health & Safety Officer

STANDARD OPERATING PROCEDURES

HS-007 General Safety Requirements

1.1 General Health and Safety Training

GEI requires all employees to complete Health and Safety Training on an annual basis. Project employees must have completed, at a minimum, GEI's General 4-Hour Health and Safety Training or when required, HAZWOPER training before beginning any on-site work. In addition, all field staff must be current in First Aid and CPR Training. Further Health and Safety training requirements can be found in Section 2 of the GEI Health and Safety Manual. In addition, all site-specific safety training will be completed before beginning work on each project site.

1.2 Tailgate Meetings

Health and Safety tailgate meetings will be conducted by the GEI Project Manager or site safety officer (SSO), and be recorded in the GEI field book or in the GEI briefing log. All GEI staff on site will sign the meeting log to indicate attendance.

1.3 Health and Safety Plans (HASP)

GEI projects must have a HASP before beginning any work. GEI HASP templates are located on the Health and Safety page on the GEI intranet. Specific requirements for HASPs are located in Section 7 of GEI's Health and Safety Manual. After the HASP has been completed, it must be sent to the Corporate Health and Safety Officer (CHSO) and the Regional Health and Safety Officer (RHSO) for review. All project employees must read the HASP and sign the signature page to document that they have read, understood, and will comply with the requirements of the HASP. The site-specific HASP must be kept on-site at all times.

1.4 Personal Protective Equipment (PPE)

Project-specific PPE will be identified in the HASP based on the hazards present during work tasks. All required PPE must be worn on the project site. More information regarding PPE is located in Section 6 of GEI's Health and Safety Manual.

1.5 Fire Protection and Prevention

The work site should be kept clear of flammable materials and debris. GEI field personnel should know where all fire extinguishers are located, and be familiar in the use of the extinguisher. Information on the correct use of a fire extinguisher is included in

GEI's general health and safety training. Call 911(or other number identified in the project HASP) in the event of a fire.

1.6 Accident/Incident Reporting

The following accident reporting procedures must be followed:

- Seek medical attention.
- Notify your supervisor.
- Notify CHSO and Human Resources (HR) within two hours of the accident/incident.
- Complete Accident Reporting Form (found on the Health and Safety page of the GEI Intranet) within **24 hours** and send to CHSO and HR. Refer to Section 8 of the GEI Health and Safety Manual for more information.

1.7 Near Miss Reporting

GEI employees will complete a near-miss reporting form if a hazardous or unsafe condition or near miss is observed. The near-miss reporting form is located on the Health and Safety page of the GEI Intranet. Refer to Section 8 of the GEI Health and Safety Manual for more information.

1.8 Housekeeping

Work areas, passages, and stairs will be kept clear of debris. All debris will be removed from the project site at regular intervals.

1.9 Illumination

Project sites will be illuminated either with natural or artificial illumination, in compliance with OSHA regulations.

1.10 Sanitation

Hand-washing is an essential form of protection from chemical and biological exposures and illness. GEI employees should wash their hands after performing work tasks and regularly throughout the day. If soap and water are not available, hand sanitizers and/or wipes should be used.

1.11 Machinery, Tools, Material, and Equipment

Machinery, tools, material, and equipment will be kept in good repair and will be inspected by a competent person. Any unsafe equipment will be identified as unsafe by

tagging or locking the controls to render them inoperable or will be physically removed from the site.

1.12 Vehicles

GEI's motor vehicles will be in good working order. Brakes, tires, head lights, and tail lights will be inspected prior to initial use and regularly during extended use by the vehicle operator. If a need for repair is discovered, the operator should contact the branch manager or their designee responsible for the scheduling of such repair to make arrangements for the repair. Each GEI-owned vehicle will have a fire extinguisher and first aid kit. Additional fire extinguishers and first aid kits are kept in each GEI office for use in personal or rental vehicles.

1.13 Heavy Equipment

GEI employees will keep a line of sight between them and heavy equipment operators. If a GEI employee needs to communicate with heavy equipment operators, they will use hand signals or direct communication with the operator. GEI employees should never operate or climb on heavy equipment. GEI employees should not approach heavy equipment while it is in operation. GEI personnel should not use cellular telephones when working near operating equipment. For more information regarding heavy equipment, refer to GEI's Heavy Equipment SOP.

1.14 Contact

GEI Corporate Health and Safety Officer
GEI Mid-West Regional Health and Safety Officer
GEI Atlantic Regional Health and Safety Officer
GEI New England Regional Health and Safety Officer
GEI Western Regional Region Health and Safety Officer

STANDARD OPERATING PROCEDURES

SOP No. HS-008 Hand and Power Tools

1.1 Objective

This SOP is intended for use by employees working with hand and power tools. The site-specific health and safety plan (HASP) should include a hazard assessment for the project that identifies the potential for encounters with biological hazards and the control methods to be implemented by GEI employees. These hazards should be reviewed in the project safety briefing and documented on the Project Safety Briefing form, found on the Health and Safety page of the GEI intranet.

1.2 General

1.2.1 Condition of Tools

All hand and power tools and similar equipment, whether furnished by GEI or the employee, will be maintained in a safe working condition.

1.2.2 Guarding

When power tools are designed to accommodate guards, they will be equipped with such guards prior to, and at all times during, use. All guards will be in good condition and be adequate to provide protection to the employee.

1.2.3 Personal Protective Equipment

Employees using hand or power tools and exposed to the hazard of falling, flying, abrasive, and splashing objects will be provided with the personal protective equipment (PPE) necessary to protect them from the hazard. All employees will wear work gloves and safety glasses at a minimum. In addition, face shields and hearing protection may be required. More information regarding PPE is located in Section 6 of GEI's Health and Safety Manual.

1.3 Hand Tools

GEI does not issue or permit the use of unsafe hand tools.

1.3.1 Power-operated Hand Tools

1.3.1.1 Electric power-operated

Electric power operated tools will either be double-insulated type or grounded according to Occupational Safety and Health Administration (OSHA) regulations. A ground fault circuit interrupter (GFCI) will be used between the power operated tool and the power source.

1.3.1.2 Pneumatic Power Tools

Pneumatic power tools will be properly maintained and operated according to the manufacturer's safe operating procedures.

1.3.1.3 Fuel Powered Tools

Fuel powered tools will be stopped and turned off while being refueled, serviced, or maintained. Fuel will be transported, handled, and stored in accordance with federal regulations. Safety Data Sheets (SDS) for fuel or chemicals will be accessible during use of the tools.

1.3.1.4 Hydraulic Power Tools

The fluid used in hydraulic powered tools will be fire-resistant and approved for use with the hydraulic powered tool as specified by the manufacturer. The fluid will retain its operating characteristics at the most extreme temperatures to which it will be exposed.

1.3.1.5 Powder-actuated Tools

Only employees who have been trained in the operation of the particular tool in use will be allowed to operate a power-actuated tool.

1.3.2 *Abrasive Wheels and Tools*

1.3.2.1 Power

Grinding machines will be supplied with sufficient power to maintain the spindle speed at safe levels under all conditions of normal operations. Follow manufacturer recommendations for sufficient power supply.

1.3.2.2 Guarding

Grinding machines will be equipped with safety guards in conformance with the requirements of the American National Standards Institute (ANSI) B7.1-1970.

1.3.3 *Woodworking Tools*

1.3.3.1 Disconnect Switches

Fixed power driven woodworking tools will be provided with a disconnect switch that can either be locked or tagged in the off position.

1.3.3.2 Speeds

The operating speed will be etched or otherwise permanently marked on all circular saws over 20 inches in diameter or operating at over 10,000 peripheral feet per minute. Saws will not be operated at a speed other than that marked on the blade.

1.3.3.3 Self-feed

Automatic feeding devices will be installed on machines whenever the nature of the work will permit. Feeder attachments will have the feed rolls or other moving parts covered or guarded so as to protect the operator from hazardous points.

1.3.3.4 Guarding

Portable, power-driven circular saws will be equipped with guards above and below the base plate or shoe.

1.3.3.5 Personal Protective Equipment

Project-specific PPE will be identified in the HASP based on the hazards present during work tasks. Required PPE must be worn when operating hand and power tools. More information regarding PPE is located in Section 6 of GEI's Health and Safety Manual

1.3.3.6 Other Requirements

Woodworking tools and machinery will meet other applicable requirements of ANSI 01.1-1961, Safety Code for Woodworking Machinery.

1.3.4 *Jacks – Lever and Ratchet, Screw, and Hydraulic*

1.3.4.1 General Requirements

The manufacturer's rated capacity will be legibly marked on all jacks and will not be exceeded. All jacks will have a positive stop to prevent over-travel.

1.3.4.2 Blocking

When the working area does not have a solid working surface and it is necessary to provide a firm foundation, the base of the jack will be blocked or cribbed.

1.3.4.3 Operation and Maintenance

Hydraulic jacks exposed to freezing temperatures will be supplied with adequate antifreeze liquid. Jacks will be properly lubricated at regular intervals. Jacks will be thoroughly inspected, if necessary, based upon the service conditions. Repair or replacement parts will be examined for possible defects. Jacks that are out of order will be tagged accordingly, and

will not be used until repairs are made. Parts subjected to wear will be inspected on a regular basis and repaired or replaced as needed.

1.4 Limitations

Follow safety procedures as defined in the site-specific HASP. Appropriate PPE must be worn correctly to provide the intended level of protection.

1.5 References

OSHA Standards for the Construction Industry, Subpart I

1.6 Attachments

None

1.7 Contact

GEI Corporate Health & Safety Officer
GEI East – North Regional Health & Safety Officer
GEI East – South Regional Health & Safety Officer
GEI Central Regional Health & Safety Officer
GEI West Regional Region Health & Safety Officer

STANDARD OPERATING PROCEDURES

SOP No. HS-010 Inclement Weather

1.1 Objective

Inclement weather can affect work activities and pose safety hazards to employees working in these conditions. The following guidelines will be followed when weather conditions become a safety concern.

1.2 Execution

All employees will be aware of local weather conditions and monitor any advisories issued by the National Weather Service and other local reporting services. Depending on location and season, storms are capable of producing heavy rain, floods, extreme temperatures, high wind conditions, lighting, tornados, and/or snowfall.

1.2.1 Heavy Rain

If working or driving in a storm use extreme caution and turn your lights on when the rainfall becomes heavy. Employees should be aware of the following:

- Heavy rain causes visibility issues, especially when driving.
- Surfaces and tools become slippery.
- If you are working in the rain and your clothes become wet there is a risk of hypothermia when exposed to winds, even in warm temperatures.
- If the storms are going to produce thunder and/or lightning, leave the work area immediately and move to a safe area.
- Use your best judgment to determine if the rainfall becomes too heavy to continue working safely.

1.2.2 Lightning

Lightning can strike as far as 10 miles from the area where it is raining. That's about the distance you can hear thunder. **If you can hear thunder, you are within striking distance. Seek safe shelter immediately.** This can be within a building or vehicle. Wait 30 minutes after the last clap of thunder or flash of lightning before going outside again.

1.2.3 Flooding

Flooding may occur as a result of heavy rain in a short period of time. Flooding can be particularly acute in canyon areas where dry creek beds can turn into raging rivers from rainfall in distant or higher elevation areas. Be aware of this and your surroundings and move to a safe place if you begin to see any signs that flooding may occur. Do not

STANDARD OPERATING PROCEDURES

SOP NO. HS-009 Hazardous Substances Management

1.1 Objective

This Standard Operating Procedure (SOP) is intended to outline the steps GEI employees will take to identify potential hazards associated with exposure to hazardous substances, the risks associated with these hazards, and the proper controls to use to minimize exposure. The site-specific health and safety plan (HASP) should include a hazard assessment for the project that identifies the potential for encounters with biological hazards and the control methods to be implemented by GEI employees. These hazards should be reviewed in the project safety briefing and documented on the Project Safety Briefing form, found on the Health and Safety page of the GEI intranet.

1.2 Hazard Identification

An initial identification of hazards should be done based on a review of available documents including lists of chemicals used on site, analytical data from soil, surface water, groundwater, air, spill history, site history, equipment on site, maps, photos, and a preliminary survey.

1.3 Risk Identification

Once the presence and concentrations of specific hazardous substances and health hazards have been established, the risks associated with these substances will be identified. GEI employees and GEI subcontractors who will be working on the site will be informed of risks that have been identified.

Risks to consider include, but are not limited to:

- Potential exposures exceeding the permissible exposure limits and published exposure levels.
- Potential Immediately to Life and Health (IDLH) Concentrations.
- Potential Skin Absorption and Irritation Sources.
- Potential Eye Irritation Sources.
- Potential hazardous atmospheres, including oxygen deficiency and fire and explosion hazards.

1.4 Engineering Controls, Work Practices, and Personal Protective Equipment for Employee Protection

Engineering controls, work practices, and personnel protective equipment (PPE) for substances regulated in OSHA Subpart Z (Toxic and Hazardous Substances) will be implemented in accordance with this section to protect employees from exposure to hazardous substances and safety and health hazards.

1.4.1 Engineering Controls, Work Practices, and Personal Protective Equipment for Substances Regulated in Subparts G (Occupational Health and Environment Control) and Subpart Z (Toxic and Hazardous Substances)

Engineering controls and work practices will be instituted to reduce and maintain employee exposure at or below the permissible exposure limits for substances regulated by 29 CFR Part 1910.

Engineering controls that may be feasible include the use of pressurized cabs or control booths on equipment, and/or the use of remotely operated material handling equipment. Work practices may include removing non-essential employees from potential exposure during opening of drums, wetting down dusty operations, and positioning employees upwind of potential hazards.

If engineering controls and work practices are not feasible, or not required, a reasonable combination of engineering controls, work practices, and PPE will be used to reduce and maintain at or below the permissible exposure limits or dose limits for substances regulated by 29 CFR Part 1910, Subpart Z.

GEI will not implement a schedule of employee rotation as a means of compliance with permissible exposure limits or dose limits except when there is no other feasible way of complying with the airborne or dermal dose limits for ionizing radiation.

The provisions of 29 CFR, subpart G, Occupational Health and Environment control, will be followed.

1.4.2 Engineering Controls, Work Practices, and Personal Protective Equipment for Substances Not Regulated in Subparts G and Subparts Z

An appropriate combination of engineering controls, work practices, and personal protective equipment will be used to reduce and maintain employee exposure to or below published exposure levels for hazardous substances and health hazards not regulated by 29 CFR Part 1910, Subparts G and Subparts Z. GEI will use published literature and Safety Data Sheet (SDS) as a guide in making the determination of what level of protection is appropriate for hazardous substances and health hazards for which there is no permissible exposure limit or published exposure limit.

1.4.3 Decontamination Procedure

Decontamination procedure(s) will be developed, communicated to employees, and implemented before employees or equipment enter areas on site where potential for exposure to hazardous substances exists. Procedures will be developed to minimize employee contact with hazardous substances or with equipment that has contacted hazardous substances.

GEI employees leaving a contaminated area will be properly decontaminated; contaminated clothing and equipment leaving a contaminated area will be properly disposed of or decontaminated.

Decontamination procedures will be monitored by the site safety officer (SSO) to determine their effectiveness. When such procedures are found to be ineffective, the site safety officer will contact the CHSO and appropriate steps will be taken to correct deficiencies.

1.4.3.1 Location

Decontamination will be performed in areas that will minimize the exposure to employees, equipment, and the environment.

1.4.3.2 Equipment and Solvents

Equipment and solvents used for decontamination will be decontaminated or disposed of properly.

1.4.3.3 Personal Protective Clothing and Equipment

Protective clothing and equipment will be decontaminated, cleaned, laundered, maintained or replaced as needed to maintain their effectiveness.

Employees whose clothing comes in contact with hazardous substances will immediately remove that clothing and rinse the exposed area with water. The clothing will be disposed of or decontaminated before it is removed from the work zone.

1.4.3.4 Commercial Laundries or Cleaning Establishments

Commercial laundries or cleaning establishments that decontaminate protective clothing or equipment will be informed of the potentially harmful effects of exposures to hazardous substances.

1.4.3.5 Showers and Changing Rooms

Where the decontamination procedure indicates a need for regular showers and change rooms outside of a contaminated area, they will be provided and meet the requirements of

29 CFR 1910.141 (Sanitation). If temperature conditions prevent the effective use of water, then other effective means for cleansing will be provided and used.

1.5 Limitations

None

1.6 Attachments

None

1.7 References

OSHA 1910.120 Hazardous Waste Operations and Emergency Response
OSHA 1910 Subpart G Occupational Health and Environment Control
OSHA 1910 Subpart Z Toxic and Hazardous Substances
OSHA 1910.141 General Environmental Controls - Sanitation

1.8 Contact

GEI Corporate Health & Safety Officer
GEI East – North Regional Health & Safety Officer
GEI East – South Regional Health & Safety Officer
GEI Central Regional Health & Safety Officer
GEI West Regional Region Health & Safety Officer

attempt to drive through areas or streets that are flooded. Seek alternate routes. Be particularly cautious at night when flooded areas are difficult to see. Urban flooding can stop traffic and increase the potential for traffic accidents and being trapped in vehicles.

1.2.4 Extreme Temperatures

Work activities may take place in extreme heat or cold. Be prepared if these conditions are anticipated. Have the correct personal protective equipment (PPE) available, exercise proper fluid intake, and take breaks to complete work and prevent heat and cold stress. For more information about these conditions see the heat stress and cold stress programs found in GEI's Health and Safety Manual.

1.2.5 High Wind and Tornadoes

Tropical storms are described as storms with sustained winds ranging from 39 to 73 miles per hour (mph) and hurricanes produce sustained winds that exceed 74 mph. When winds approach 40 mph (gale force winds) twigs begin to break off of trees and vehicles will veer off of the road. When winds approach 40 mph or the GEI employee feels unsafe based on the activities being performed, work is to be stopped and you should seek shelter as soon as possible. Blowing or falling debris and overhanging limbs/signs can be a significant hazard. Avoid driving in these conditions; 70 percent of injuries during hurricanes are a result of vehicle accidents. Note that tall or elevated equipment will have manufacturer's safe operating wind speeds defined that could be less than 40 mph, the operator's manual should be consulted prior to operation of the equipment.

A tornado is a violent, dangerous, rotating column of air that is in contact with both the surface of the earth and a cumulonimbus cloud or, in rare cases, the base of a cumulus cloud. The Fujita Scale is used to rate the intensity of a tornado by examining the damage caused by the tornado after it has passed over a man-made structure. Based on the Fujita Scale or F-Scale Numbers begin at F0: 40-72 mph and go to F6: 319-379 mph (F6 is generally theoretical). Nearly three-fourths of all tornadoes are on the weak F0-F1 scale with just over two-thirds of deaths resulting from the violent F4-F5 tornadoes. All tornado wind speeds exceed the 40 mph stop work speed, shelter should be taken immediately if a tornado is seen. If a tornado siren is sounded move immediately to safety indoors and then move to a windowless interior space, basement, stair well etc., or designated fall-out shelter if available. Windows should not be opened before an oncoming tornado, keep the building envelope closed to the extent possible. If there is no shelter available seat belt yourself into your stationary vehicle or seek a depression or low spot on the land surface.

1.2.6 Snowfall and Ice Conditions

Working in the winter months will result in activities taking place during periods of snowfall or icy conditions. If you are working during or after snow has fallen, dress appropriately for the conditions. Snow and ice can cause working surfaces to become

slippery; clear snow and ice from all work areas to prevent slip hazards. Use caution when performing any snow or ice removal activities to prevent injuries. Driving in snowy and icy conditions is also hazardous. Reduce speed and use caution if you must drive in these conditions.

If the weather conditions deteriorate and you do not feel safe working in these conditions, stop work, move to a safe indoor location, and contact your Project Manager to let them know the weather and work status and your location.

1.3 Limitations

- Follow safety procedures as defined in the site-specific health and safety plan (HASP) at all times.
- Protection from working in extreme weather conditions can best be accomplished if the conditions are anticipated. Monitor local weather conditions prior to starting work.

1.4 References

Center for Disease Control and Prevention – Natural Disasters and Severe Weather
<http://www.bt.cdc.gov/disasters/>
National Lightning Safety Institute
NOAA, National Weather Service
Office of Climate, Water, and Weather Services

1.5 Attachment

None

1.6 Contact

GEI Corporate Health and Safety Officer
GEI Mid-West Regional Health and Safety Officer
GEI Atlantic Regional Health and Safety Officer
GEI New England Regional Health and Safety Officer
GEI Western Regional Region Health and Safety Officer

STANDARD OPERATING PROCEDURES

SOP No. HS-012 Noise Exposures

1.1 Objective

Working in loud environments can cause hearing damage and loss if the proper protection is not in place. The following procedures describe methods to mitigate unhealthy noise levels and protect hearing.

1.2 Execution

Prior to working on any project, an Activity Analysis or Job Hazard Analysis must be performed by the Project Manager or their designee to evaluate the potential hazards and identify steps to be taken to protect all workers from any hazard. If projects involve high levels of noise from such sources as heavy equipment, power tools, pumps, generators, or any other noise source employees must take steps to remove the noise exposure. GEI has an established Hearing Conservation Program located in the GEI Health and Safety Manual.

Hearing protection is required if noise levels in a work area are known to be above 85 decibels (dB), which can be measured with a noise meter. When decibel levels are not known, hearing protection is required if you need to raise your voice to talk to someone standing within a normal speaking distance from you.

The first option for employee protection from hazardous noise levels is to remove the hazard by taking away the source of the noise or using engineering controls to reduce the level. If this cannot be accomplished, the next control measure to be used is to remove the worker from the source. This can be done by moving the work area to a quieter location or distancing the worker from the noise source. For example, GEI employees do not need to be standing next to an operating drill rig or other heavy equipment, by distancing themselves from heavy equipment or other noise sources the need for hearing protection can be eliminated. The final option for worker protection is personal protective equipment (PPE). Disposable ear plugs are made available to GEI employees and are to be used when required. Additional means of hearing protection will be provided, such as ear muffs, if the disposable ear plugs are not adequate.

Employees should be aware of surroundings such as moving equipment, traffic, and other site hazards when wearing hearing protection.

1.3 Proper Use of Hearing Protection

DISPOSABLE EAR PLUG FITTING INSTRUCTIONS

Before fitting any ear plugs, make sure your hands are clean.
Foam ear plugs are disposable and not intended for reuse.

Hold the ear plug between your thumb and forefinger. Roll and compress the entire ear plug to a small, crease-free cylinder. While still rolling, use your other hand to reach over your head and pull up and back on your outer ear. This straightens the ear canal, making way for a snug fit.



Insert the ear plug and hold for 20 to 30 seconds. This allows the ear plug to expand and fill your ear canal.



Test the fit. In a noisy environment, and with earplugs inserted, cup both hands over your ears and release. You should not notice a significant difference in the noise level. If the noise seems to lessen when your hands are cupped over your ears, your ear plugs are not fitted properly. Remove and refit following instructions.



Always remove ear plugs slowly, twisting them to break the seal. If you remove them too quickly, you could damage your ear drum.

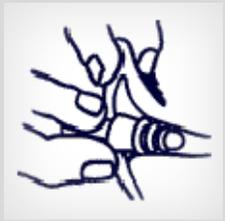


REUSABLE EAR PLUG FITTING INSTRUCTIONS

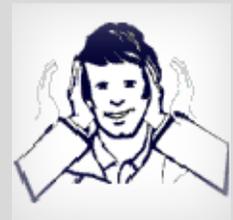
Before fitting any ear plugs, make sure your hands are clean. Reach around your head and pull up and back on your outer ear. This straightens out the ear canal, making way for a snug fit.

Reusable ear plugs should be inspected and cleaned often in soapy water. If they become hard, torn, or deformed they should be replaced.

Hold the stem end of the ear plug and insert it well inside your ear canal until you feel it sealing and the fit is comfortable.



Test the fit. In a noisy environment, and with ear plugs inserted, cup both hands over your ears and release. You should not notice a significant difference in the noise level. If the noise seems to lessen when your hands are cupped over your ears, your ear plugs are not fitted properly. Remove and refit following instructions.



Always remove ear plugs slowly, twisting them to break the seal. If you remove them too quickly, you could damage your ear drum.



1.4 Limitations

- Follow safety procedures as outlined in the site-specific health and safety plan (HASp) at all times.
- Any type of hearing protection that is used must be worn properly in order to provide the intended amount of protection. If PPE is not worn properly, exposure to the hazard may occur.

1.5 References

OHSA 29 CFR 1910.95 – Occupational Noise Exposure

OHSA 29 CFR 1926.101 – Hearing Protection

Texas American Safety Company (TASCO)

1.6 Attachment

None

1.7 Contact

GEI Corporate Health and Safety Officer
GEI Atlantic Regional Health and Safety Officer
GEI New England Regional Health and Safety Officer
GEI Midwest Regional Health and Safety Officer
GEI Western Regional Region Health and Safety Officer

STANDARD OPERATING PROCEDURE

SOP HS-014 Utility Mark-out

1.1 Objective

This SOP provides guidance for utility mark-out procedures related to drilling, excavation, or other sub-surface or intrusive activities to avoid injury to GEI employees or property damage. This SOP is applicable when GEI is responsible for its operation or our subcontractor's operation for utility mark-out.

Clients or local agencies may have additional requirements or procedures for the marking of utilities. If local utility mark-out procedures differ from those described within this SOP, applicable state or municipal regulations should be followed.

1.2 Execution

- The contractor or GEI employee visits the site and marks out each exploration area with white paint, flags, or stakes. Mark-outs will be performed wearing all required PPE, including eye protection when using spray paint to perform the mark-out.
- All exploration locations should be marked out with sample identification number(s) and type of sample (e.g., boring, test-pit, or monitoring well).
- The contractor compiles information about the work areas on a request form specified by the state utility mark-out program and provides this information to the mark-out program call center with a phone call or electronic submittal. Work area location maps can be sent to the utility mark-out program to clarify locations.
- The mark-out program customer service representative will provide a mark-out ticket number and a list of utilities notified upon receipt of the request information. This information will be recorded on the GEI documentation form or in other project documents.
- If known, the contractor will also notify any non-member utility operators (such as apartment complexes, commercial complexes, railroads with communication cables, etc.).
- Utility companies or their sub-contractors will only mark-out, or clear, utilities under their responsibility. Generally, this means that they will only mark-out utilities within the public right-of-way up to private property boundaries. Information needed to determine the location of utilities on private properties will be requested from the property owner. This may include available

property drawings or as-built figures. If this information is not available, additional non-intrusive surveys of the property may be required by a private utility locator to find underground utilities by using techniques, including ground penetrating radar (GPR).

- American Public Works Association (APWA) Uniform Color Code For Marking Underground Utility Lines are:
 1. **White** – Proposed Excavation
 2. **Pink** – Temporary Survey Markings
 3. **Red** – Electric Power Lines, Cables, Conduit and Lighting Cables
 4. **Yellow** – Gas, Oil, Steam, Petroleum, and Gaseous Material
 5. **Orange** – Communications, Alarm, Signal Lines, Cables or Conduit
 6. **Blue** – Water
 7. **Purple** – Radioactive Materials
 8. **Green** – Sanitary and Storm Sewers and Drain Lines

- Before the intrusive work activities begin, the contractor will verify that each utility company has completed a utility location for the work area or the location has been cleared by a private locator and record this on the mark-out request information sheet.
- A visual survey of the project area will be done prior to the start of intrusive activities. This visual inspection will be done to identify any signs, manholes, utility boxes, or other evidence of an underground utility is present and has been considered.
- The contractor can begin work on the scheduled work date and time if all the utility operators have responded, taking care to find and preserve any markings that have been made.
- Completed clearance documentation will be located on the excavation site during excavation activities and kept in project files.
- When excavating near a buried utility, observe the approximate location around that utility.
- If exposing a utility, proper support and protection must be provided so that the utility will not be damaged.
- If the excavation work requires significant spans of the utility to be exposed, it is the contractor's responsibility to support them (to prevent sagging or collapse) as needed. Contact the utility operator for support, guidance, or assistance.
- When the excavation is complete, provide proper backfill for any utilities that have been exposed.

- Take care not to damage the conduit or protective coating of a utility. If the contractor damages this, leave the damaged utility exposed and immediately call the utility owner.
- If a gas line is contacted, the contractor must notify police, fire, and emergency personnel, and evacuate employees according to the site evacuation procedures. No attempt should be made to tamper with or correct the damaged utility.
- If the contractor/consultant needs to dig within the approximate location of a combustible, hazardous fluid, or gas line (natural gas, propane or gasoline), soft digging is required (hand digging, vacuum extraction) to a maximum depth of five feet. The approximate location is defined as 24 inches on either side of the designated center line of the utility if the diameter is not provided or 24 inches from each outside edge if the diameter is provided.

1.3 Limitations

- Mark-out notification time usually does not include holidays. Make sure holidays are considered and mark-out time is scheduled accordingly. Under no circumstances are intrusive activities allowed to be performed prior to the required mark-out.
- Do not use white paint if precipitation is eminent. Consider using stakes if snow is predicted.

1.4 References

Call 811 to contact the utility mark-out agency for the state you are calling from or use the contact information below.

Arizona

Name: Arizona Blue Stake

Telephone: 1 (800) 782-5348

Website: www.azbluestake.com

Wait time after notification: 2 business days (excluding holidays)

Connecticut

Name: Call-Before-You-Dig (CBYD)

Telephone: 1 (800) 922-4455

Website: www.cbyd.com

Wait time after notification: 2 business days (excluding holidays)

Expiration of mark-out: 30 days

Colorado

Name: Utility Notification Center of Colorado
Telephone: (800) 922-1987 or (303) 232-1991
Website: www.uncc2.org
Wait time after notification: 2 business days (excluding holidays)
Expiration of mark-out: 30 days

Hawaii

Name: Hawaii One Call
Telephone: (866) 423-7287
Website: www.callbeforeyoudig.org
Wait time after notification: 5 business days (excluding holidays)
Expiration of mark-out: 28 days

Illinois

Name: **JULIE**, Inc. (for all of Illinois except the City of Chicago)
Telephone: (800) 892-0123
Website: www.illinois1call.com
Wait time after notification: 2 business days (excluding holidays)
Expiration of mark-out: 14 days

Name: **Digger** (City of Chicago only)
Telephone: (312) 744-7000
Website: www.iupps.org
Wait time after notification: 2 business days (excluding holidays)
Expiration of mark-out: 14 days

Indiana

Telephone: (800) 382-5544
Website: www.iupps.org
Wait time after notification: 2 business days
Expiration of mark-out: 20 days after call in

Kansas**Kansas One Call**

Telephone: (800) DIG-SAFE or (316) 687-2102
Website: www.kansasonecall.com
Wait time after notification: 2 business days (excluding holidays)

Massachusetts, Maine, New Hampshire, Rhode Island, Vermont

Name: Dig Safe System, Inc.
Telephone: 1 (888) DIGSAFE (344-7233)
Website: www.digsafe.com
Wait time after notification: 3 business days (2 business days in VT)
Expiration of mark-out: 30 days (ME, NH, VT); 60 days (RI);
None (MA)

Michigan

Name: Miss Dig System, Inc.

Telephone: (800) 482-7171

Website: www.missdig.org

Wait time after notification: 3 business days

Expiration of mark-out: 21 days

Minnesota

Name: Gopher State One Call

Telephone: (800) 252-1166 or (651) 454-0002

Website: www.gopherstateonecall.org

Wait time after notification: 2 business days

Expiration of mark-out: 14 days

Nebraska

Name: Diggers Hotline of Nebraska

Telephone: (800) 331-5666 or (402) 344-3565

Website: www.ne-diggers.com

Wait time after notification: 3 business days (2 business days in VT)

Expiration of mark-out: 30 days

New Jersey

Name: New Jersey One Call

Telephone: 1 (800) 272-1000

Website: www.nj1-call.org

Wait time after notification: 2 business days

Expiration of mark-out: 45 days

New Mexico:

Name: New Mexico One Call System, Inc.

Telephone: 1 (800) 321-2537, (505) 260-1165

Website: www.nmonecall.org

Wait time after notification: 2 business days

Expiration of mark-out: 10 days

New York City/Long Island

Name: New York City One Call Center

Telephone: 1 (800) 272-4480

Website: www.nycli1calldsi.com

Wait time after notification: 2 to 10 days (excluding holidays)

Expiration of mark-out: 30 days

New York State

Name: Dig Safely New York

Telephone: 1 (800) 962-7962

Website: www.digsafelynewyork.com
Wait time after notification: 2 business days (excluding holidays)
Expiration of mark-out: 30 days

Northern California

Underground Service Alert of Northern California
Telephone: (800) 227-2600
Website: www.usanorth.org/
Wait time after notification: 2 business days (excluding holidays)
Expiration of mark-out: 28 days

Oregon

Name: Oregon Utilities Coordinating Council
Telephone: (800) 332-2344
Website: www.oucc.net/
Name: Utility Notification Center
Telephone: (800) 332-2344
Website: www.digsafelyoregon.com
Wait time after notification: 2 business days (excluding holidays)

Southern California

Name: Underground Service Alert of Southern California
Telephone: (800) 227-2600
Website: <http://www.digalert.org/index.asp>
Wait time after notification: 2 business days (excluding holidays)
Expiration of mark-out: 28 days

Utah

Name: Blue Stakes Location Center
Telephone: (800) 662-4111 or (801) 208-2100
Website: www.bluestakes.org/
Wait time after notification: 2 business days (excluding holidays)
Expiration of mark-out: 14 days

Wisconsin

Name: Diggers Hotline
Telephone: (800) 242-8511
Website: www.diggershotline.com
Wait time after notification: 3 business days (excluding holidays)
Expiration of mark-out: 10 days

Wyoming

Name: One Call of Wyoming
Telephone: (800) 849-2476, No Local
Website:

Wait time after notification: 2 business days (excluding holidays)
Expiration of mark-out: 14 days

1.5 Attachment

Attachment A – Standard Utility Color Codes

Attachment B – GEI Utility Clearance Documentation Form

1.6 Contact

GEI Corporate Health and Safety Officer

Mid-West Regional Health and Safety Officer

Atlantic Regional Health and Safety Officer

New England Regional Health and Safety Officer

Western Regional Region Health and Safety Officer

COLOR CODE FOR UTILITY MARKING

(BASED ON 'THE AMERICAN PUBLIC WORKS ASSOCIATION' RECOMMENDATIONS AND THE ANSI STANDARD Z-53.1 FOR SAFETY COLORS)

UTILITY	COLOR
PROPOSED EXCAVATION	WHITE
ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING CABLES	RED
POTABLE WATER	BLUE
STEAM, CONDENSATE, GAS OR OIL COMPRESSED AIR	YELLOW
TELECOMMUNICATIONS, ALARM OR SIGNAL LINES, CABLES OR CONDUIT	ORANGE
TEMPORARY SURVEY MARKINGS	PINK
SEWER AND STORM DRAINS	GREEN
CHILLED WATER, RECLAIMED WATER, IRRIGATION AND SLURRY LINES	PURPLE
OTHER	LIGHT BLUE

1.0/4902e011.pdf

(12/2004)

	Utility Clearance Documentation
-----------------------------------------------------------------------------------	----------------------------------------

Client: _____

Project: _____

Site: _____

Excavation/Drilling Location ID: _____

Excavator/Driller: _____

GEI PM: _____

GEI Field Team Leader: _____

Utility Drawings Reviewed: _____

Provided By: _____

Reviewed By: _____

Utility Clearance Call Date: _____

Utility Clearance Received back from (list utilities): _____

Completed By (Company): _____ Date: _____

GEI Staff Responsible for Oversight: _____

Metal Detector Survey (yes/no): _____

Drilling Location Cleared by: _____

Contractor: _____ Date: _____

GEI Staff Responsible for Oversight: _____

Private Location Clearance Required (yes/no): _____

Contractor: _____ Date: _____

Methods used for utility location (i.e. GPR, electronic pipe location) _____

GEI Staff Responsible for Oversight: _____

Hand clearing Performed: _____ Date: _____

Contractor: _____

GEI Staff Responsible for Oversight: _____

Notes: _____

Based upon the best available information, appropriate utility clearance procedures were performed for the invasive work specified. If client ordered/site specific deviations from existing GEI utility clearance procedures exist, they are approved by the client signature below.

Client Signature (Optional): _____

Date: _____

GEI, Inc. Representative: _____

Date: _____

STANDARD OPERATING PROCEDURES

SOP No. HS-016 Traffic Hazard Management

1.1 Objective

The objective of this standard operating procedure (SOP) is to prevent or limit the potential for GEI personnel to encounter traffic hazards during field activities.

1.2 General

This SOP is intended for use by employees engaged in work with the potential for traffic hazards. The site-specific health and safety plan (HASP) should include a hazard assessment for the project that identifies the potential for exposure to traffic hazards and the control methods to be implemented by GEI employees. These hazards should be reviewed in the project safety briefing and documented on the Project Safety Briefing form, found on the Health and Safety page of the GEI intranet.

1.3 Traffic Hazard Management

Traffic Hazard Management is the process of identifying and managing the potential risks associated with the movement of traffic through, around, or past a work area. This Traffic Hazard Management SOP is designed to assist employees in identifying and managing these hazards. Work areas should be as safe as possible. It is the responsibility of GEI employees to follow the Traffic Hazard Management plan and adhere to these safety standards. Safety is not negotiable.

Under no circumstances are GEI employees permitted to commence work in a situation that they feel puts their health and safety, or the health and safety of others, at risk.

Major risk factors for work site Traffic Hazard Management include:

- The speed of traffic past or through a work site.
- The clearance between moving traffic, workers, vehicles and equipment, and over-head power lines.
- Traffic volume and vehicle composition.
- Nature and conditions at the work site and approaches to the work site.
- Other factors such as the time of day, sight distance, weather, presence of pedestrians, or cyclists, and the type of work being carried out.

- Other hazards in proximity to the work site (e.g., power lines, open excavations) that may have conflicting measures needing to be considered when developing the plan.

1.4 Site Preparation

The following management measures will be considered whenever working in traffic areas. In addition, remain aware of the amount of traffic around the working area. The work space should be large enough for the job to be completed safely. Check permit, traffic control plans, and flagger/police detail requirements for the local jurisdiction. Perform routine checks of the work zone to make sure there are adequate levels of protection.

1.4.1 Warning Cones and Warning Signs

GEI employees will comply with the Department of Transportation's (DOT) Manual on Uniformed Traffic Control Devices (MUTCD) and/or state regulations for temporary traffic barriers (cones, barriers) and sign placement when required for working in traffic areas. Clearly define the work site by placing traffic barriers around the work space to indicate the space that is needed to safely perform the work. The traffic barrier will help make the work site more visible to other workers and moving vehicles. Place traffic barriers to give yourself adequate space to work, so equipment is not outside the space. OSHA suggests placing the first warning sign at a distance calculated to be 4 to 8 times (in feet) the speed limit (in MPH).

1.4.2 Adequate Light

Requirements for night conditions and work areas with poor visibility are similar to day requirements; however there are a number of additional things to consider, such as visibility of the work site to advancing traffic and sufficient lighting. OSHA requires lighting for workers on foot and equipment operators to be at least 5 foot-candles or greater.

Visibility of the work area can be increased by employing the following measures:

- Using parked vehicles hazard and flashing lights.
- Wearing reflective safety vest that is in good condition.
- Providing adequate lighting to illuminate the work area. This lighting should be positioned so that there is no glare to approaching drivers.
- Placing advance warning signs and cones with retro reflective stripes so that they are visible to road users.

1.4.3 Distance from the Nearest Traffic Lane

Work areas located along roadsides will have a minimum clearance as defined by DOT's MUTCD and/or state or local DOT regulations for cone and sign placement.

1.4.4 PPE

The proper personal protective equipment (PPE), as outlined in the project HASP, will be worn when appropriate. The color/type of safety vest will comply with site regulations.

1.5 Equipment Operation

Vehicles and heavy equipment operators should use a spotter when possible if it is necessary to drive in reverse to reduce risk of collision with oncoming traffic. If it is necessary to drive against the flow of traffic make sure this area is within the work zone and properly blocked off from oncoming traffic.

1.6 Pedestrian Safety

When working near pedestrian traffic, a safe walkway will be established. Refer to local regulations when establishing pedestrian walkways.

1.7 Limitations

Follow safety procedures as defined in the site-specific HASP, federal DOT, and local jurisdictions. Appropriate PPE must be worn correctly to provide the intended level of protection.

1.8 References

DOT's Manual on Uniformed Traffic Control Devices (2009 Edition)
<https://www.osha.gov/SLTC/etools/hurricane/work-zone.html>

1.9 Attachments

None

1.10 Contact

GEI Corporate Health and Safety Officer
GEI East-North Regional Health and Safety Officer
GEI East-South Regional Health and Safety Officer
GEI Mid-West Regional Health and Safety Officer

GEI Western Regional Health and Safety Officer

STANDARD OPERATING PROCEDURES

SOP No. HS-018 Working Around Heavy Equipment

1.1 Objective

Working near heavy equipment operations is common on many GEI project sites. Heavy equipment can include excavators, backhoes, bull dozers, cranes, dump trucks, drill rigs, and other large equipment used in construction. The following procedures and guidelines will be considered when working around heavy equipment.

1.2 Execution

Heavy equipment can present many physical hazards that can result in serious injury or death if the proper safety precautions are not taken. The following is a list of precautions to be aware of at all times when working around heavy equipment:

- Wear appropriate PPE, including a high visibility safety vest.
- Always keep your distance from any moving vehicles.
- Never assume the vehicle operator knows where you are or where you are going. Make sure to make eye contact with the operator and communicate when working near heavy equipment. If using hand signals, discuss the signals with the equipment operator prior to starting work.
- Watch for moving equipment at all times. Construction sites can have a lot of activity and vehicles may be moving closer than you may think. Do not rely on back-up or other alarms. They may not be working or you may not hear them with the noise of the construction site in the background.
- Stay out of the swing radius of cranes, excavators, or other equipment that swings or rotates.
- Never walk beside a moving vehicle, the vehicle may turn, slip, or the load may shift causing the vehicle to go off course.
- Never ride on the outside of any moving vehicle.
- Always stay out from under a suspended load on cranes or hoists, even if it means taking the long way around.
- Never walk behind a piece of equipment that is backing up. The operator may not see you.
- If working next to heavy equipment is unavoidable, be aware of all hazards including pinch points and moving parts. Use a spotter to watch the work area for moving equipment.
- If necessary, ask the operator to stop equipment operation to perform your work tasks.
- Verify the location and operation of emergency shut off devices on the equipment.

- Be aware of the fuels and chemicals associated with the equipment. Have a spill prevention and response plan in place that includes the appropriate containment materials (i.e., spill kit).
- Do not wear loose fitting clothing when working around moving equipment (i.e., drill rig augers).
- Do not operate heavy equipment.
- Do not use cellular telephones near operating equipment.

1.3 Limitations

- Follow safety procedures provided in the site-specific health and safety plan (HASP) at all times.

1.4 References

OSHA 29 CFR 1926.600 – Subpart O; Motor Vehicles, Mechanized Equipment, and Marine Operations.

www.toolboxtopics.com/Construction

Caterpillar Safety – <http://safety.cat.com/>

1.5 Attachment

None

1.6 Contact

GEI Corporate Health and Safety Officer
Atlantic Regional Health and Safety Officer
New England Regional Health and Safety Officer
Mid-West Regional Health and Safety Officer
Western Regional Health and Safety Officer

STANDARD OPERATING PROCEDURES

SOP No. HS-025 Manual Lifting

1.1 Objective

The purpose of the GEI Consultants, Inc. (GEI) Manual Lifting SOP is to identify and reduce potential work-related musculoskeletal disorder (WMSD) hazards. The SOP is intended to comply with state regulations and safe work practices developed by the Occupational Safety and Health Administration (OSHA). Modifications to meet these requirements will be made to this program as changing laws or regulations dictate.

1.2 General

The following Safe Lifting guidelines will be followed by GEI employees involved in manual lifting activities:

- Before manual lifting is performed, a hazard assessment must be completed. The assessment must consider size, bulk, and weight of the object(s), if mechanical lifting equipment is required, if two-man lift is required, whether vision is obscured while carrying and the walking surface and path where the object is to be carried.
- Get a co-worker to help if equipment or other item is too heavy to lift.
- If possible, use powered equipment instead of manually lifting heavy materials. Lifting equipment such as dollies, hand trucks, lift-assist devices, jacks, or carts can be provided for employees.
- Reduce lifts from shoulder height and from floor height by repositioning the shelf or bin.
- Make sure walkways are clear of tripping hazards before moving materials.
- Use your legs and keep your back in a natural position while lifting. Keep the load



close to your torso.

- Test the load to be lifted to estimate its weight, size, and bulk and to determine the proper lifting method.

- Do not twist while carrying a load. Instead, shift your feet and take small steps in the direction you want to turn.
- Make sure there are appropriately marked and sufficiently safe clearances for aisles and at loading docks or passageways where mechanical-handling equipment is used.
- Properly stack loose or unboxed materials which might fall from a pile by blocking, interlocking, or limiting the height of the pile to prevent falling hazards.
- Bags, containers, bundles, etc. should be stored in tiers that are stacked, blocked, interlocked, and limited in height so that they are stable and secure to prevent sliding or collapse.
- Storage areas should be kept free from accumulation of materials that could lead to tripping, fire, or explosion.
- Work methods and stations should be designed to minimize the distance between the person and the object being handled.

Supervision must periodically evaluate work areas and employees' work techniques to assess the potential for and prevention of injuries. New operations should be evaluated to engineer out hazards before work processes are implemented.

1.3 Injury Reporting

Injuries experienced during manual lifting activities should receive prompt medical attention. If a GEI employee suffers an injury on the job, he/she is to report the injury to their immediate supervisor within 2 hours of the incident. The supervisor will immediately notify the CSHO and Director of Human Resources.

After verbal notification has been made, an Incident and Accident Report Form is to be completed by the employee and/or Project Manager and submitted to Human Resources and the CHSO within 24 hours of its occurrence. This form is available on the Health and Safety site on the GEI Intranet.

Upon notification from a Branch or Office Manager, Human Resources, and/or the receipt of the Incident and Accident Report Form, the CHSO and/or the RHSO will conduct an investigation and evaluation of the incident and the incident response. Information received will be analyzed for the hazards and risk factors associated with the incident. The CHSO will then recommend (as necessary) engineering controls, PPE, training or other appropriate measures to minimize the potential for future musculoskeletal injuries. The CHSO/RHSO will develop educational information based on lessons learned for distribution to GEI employees.

1.4 Training

Training will include general principles of ergonomics, correct manual lifting training to avoid musculoskeletal injuries, recognition of hazards and injuries, procedures for reporting hazardous conditions, and methods and procedures for early reporting of injuries.

1.5 Ergonomic Evaluation Process

1.5.1 Requesting an Evaluation

An evaluation can be requested by the employee if they have concerns about their workstation, tasks, or are experiencing discomfort while working. The employee can request an evaluation by directly contacting their supervisor, Branch Manager, RHSO, HR or the CHSO via email. The Branch Manager will be notified of the requested evaluation. The Coordinator will send the Worksheet to the employee, who will complete it and return it to the Coordinator. The Coordinator will review the Worksheet and suggest modifications to the employee. If these modifications do not resolve the issue, the Coordinator will then schedule an in-person evaluation with the employee. If an employee is experiencing discomfort at their workstation and a request for an evaluation has been made, the evaluation will occur as soon as possible to assist the employee. If the Coordinator is not available another Coordinator will be assigned the evaluation.

Coordinators will be trained to treat the information obtained during the evaluation as confidential. If there are concerns the employee does not wish to discuss with the Coordinator due to their personal nature, a representative from HR will be designated to assist with the evaluation.

1.5.2 Job Hazard Analysis

Once the evaluation has been scheduled, the Coordinator will meet with the employee at their workstation and conduct the interview and review their work area. The Ergonomic Evaluation Checklist will help guide the Coordinator through a series of questions to help evaluate the potential ergonomic safety concerns. The evaluation is designed to be a conversation between the employee and Coordinator to help develop an open dialog. During the evaluation the Coordinator will identify ergonomic risk factors and implement immediate corrective actions, if possible. In many cases, simple adjustments can be made to the work station using existing equipment. Ergonomic work practices including “ergo breaks” and stretching can also be recommended.

1.5.3 Corrective Actions

During the evaluation the Coordinator may suggest adjustments that can be made to the existing work station. The employee will be encouraged to adopt the suggestions but ultimately has the choice to accept and implement them. Once the evaluation has been completed, the Coordinator will review the evaluation and if there are concerns, they will evaluate them with the HSC. Once the HSC has discussed the evaluation and developed corrective actions, they will be documented on the Checklist. The corrective actions will be shared with the employee and the Branch Manager. Prior to equipment purchases, approval will be authorized by the local branch manager.

Broken equipment will be taken out of service, properly disposed of and replaced. If improper equipment is being used, the proper equipment will be obtained or purchased with approval. If the employee's workspace presents a hazardous condition (fire hazards, trip hazards, noise exposure, etc.) the hazard will be corrected, if possible, or the employee will be moved to a safe workspace. If the equipment being used is not an appropriate fit for the employee, a suggestion will be made in the evaluation report to obtain or purchase the equipment that fits the employee properly.

If a repetitive task is identified, options will be discussed with the Branch Manager, the HSC and/or other appropriate personnel to evaluate whether the task can be altered to facilitate a safer condition. Many times accelerated deadlines, apprehension, or lack of options cause an employee to believe they don't have a choice and will just push through to complete the task potentially causing an ergonomic injury. These types of situations need to be recognized and corrected. A proactive approach by both the Branch Manager and employee should be instituted to prevent or anticipate these situations so that the correct equipment, additional employees or better planning can be incorporated while still meeting the deadline.

The organization of the workspace is also an important ergonomic factor. Items should be placed so that frequently used equipment is within arm's reach and located on the correct side of the body for which that equipment is used to prevent unnecessary twisting or reaching. Having adequate space to complete tasks is necessary but may not be achieved if piles and unnecessary items occupy the space. The Coordinator can suggest how to take advantage of tools and organizational skills to free up space.

Other areas of concern may be outside factors that occur away from the office. If the employee conducts field work, the tasks should be completed with ergonomics in mind.

A separate evaluation of these tasks may be conducted to determine if a different process or equipment may be used to reduce any unnecessary pressure or fatigue to the employee's body. At times when employees have permission to work from home or use their GEI computers at home, in hotels while traveling, in an environment that is not ergonomically correct, employees will be encouraged to adopt the ergonomic recommendations they learn at work.

Employee's hobbies can also pose ergonomic risks. Hobbies that involve repetitive motions, prolonged postures, vibration, excessive force/overexertion and adverse environmental factors may cause ergonomic injuries that can be aggravated at work.

During the interview process, the Coordinator will try to identify these risks and discuss techniques to help alleviate discomfort and minimize additional injury. It will be up to the employee to modify non-related work risks.

If an employee is experiencing discomfort, efforts will be made to alleviate the discomfort while at work. For example, if an employee has a physical injury that occurred outside of work that requires them to keep their leg elevated, the employee can work with their Coordinator to determine a solution. This may involve temporarily modifying their workstation or transferring to another workstation. Healthy work practices and generally good health are keys to staying comfortable at work too. Regular stretch breaks, good posture, vision check-ups, good sleep habits and maintaining a healthy weight are factors in creating a comfortable work environment. If a physical non-work related problem persists and impedes the employee from being effective at work, suggestions may be made to see a personal physician for further advice.

1.5.4 Reporting and Follow-up

Once the evaluation has been completed and the Coordinator's suggestions have been implemented, the Coordinator will document the findings on the Checklist and an evaluation report will be completed and submitted to the employee, the evaluated employee's Branch Manager, and the CHSO. Then a follow-up will be conducted by the Coordinator to evaluate whether the adjustments were successful. The timeline for follow-up will be based on the adjustments suggested and employed. If new equipment is installed, the Coordinator will follow-up after the equipment has been installed and the employee has had time to adjust to it. If an injury has been identified, the Coordinator will notify the Branch Manager and CHSO immediately following the evaluation. This will confirm on-going management of the injury.

During the follow-up evaluation the Coordinator will make visits to the employee's workstation and assess visually and through interviews determine how the changes have been received. Each of these follow-ups will be documented on the Checklist. If during the follow-up a re-adjustment or different equipment is needed, the reevaluation process will continue until the employee is comfortable.

1.6 Limitations

Follow safety procedures for manual lifting.

1.7 References

OSHA Technical Manual (OTM), Section VII: Chapter 1 - Back Disorders And Injuries

1.8 Attachments

None

1.9 Contact

GEI Corporate Health & Safety Officer
GEI East – North Regional Health & Safety Officer
GEI East – South Regional Health & Safety Officer
GEI Central Regional Health & Safety Officer
GEI West Regional Region Health & Safety Officer

Appendix 4

Soil Boring Logs



EXPLORATION LOG SOIL BORING (S1)

Boring/Well ID:		S-1		Client:		Lam Engineering, PC				
Project Number:		1415450		Project Name:		Phase 2 Subsurface Investigation				
Logged By:		CM		Site Address:		31-14 38th Avenue, Long Island City, New York				
Date:		12/30/2014		Contractor:		Tri-State Drilling Technologies, Inc.				
Total Depth (feet):		15.0		Driller:		PR				
				Drilling Method:		Geoprobe				
Depth (feet)	Sample Identification	Sample Interval (feet)	Blows per 6 inches	Penetration (inches)	Recovery (inches)	Stratigraphic Unit	PID Jar HS / Remarks	Sample Description		
1	S-1	0-5'	NA	60	14		0.0	0-3" Concrete		
2							0.0	3-14" brown fine to medium sand 85% little silt, trace fine gravel		
3										
4										
5		5-10'		60	47		0.0	0-11" brown fine to medium sand 85% little silt, trace fine gravel, trace fill (asphalt)		
6										11-42" brown fine sand 75% silt 25%
7										42-48" light brown/tan, fine sand 90%, little silt
8										
9										
10		10-15'		60	44		0.0	0-8" light brown/tan, fine sand 90%, little silt		
11										8-12" light brown/tan, fine sand 80%, little silt 20%
12										12-44" light brown/tan, fine sand 90%, little silt
13										
14										
15								Analytical Samples collected from 0 - 2 & 12 - 14 feet		
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										



**EXPLORATION LOG
SOIL BORING (S2)**

Boring/Well ID:		S-2		Client:		Lam Engineering, PC		
Project Number:		1415450		Project Name:		Phase 2 Subsurface Investigation		
Logged By:		CM		Site Address:		31-14 38th Avenue, Long Island City, New York		
Date:		12/30/2014		Contractor:		Tri-State Drilling Technologies, Inc.		
Total Depth (feet):		4.0		Driller:		PR		
				Drilling Method:		Manual		
Depth (feet)	Sample Identification	Sample Interval (feet)	Blows per 6 inches	Penetration (inches)	Recovery (inches)	Stratigraphic Unit	PID Jar HS / Remarks	Sample Description
1	S-2	0-4'	NA	48	48		0.0	0-3" Concrete
2							↓	3"-4' brown fine sand 80% 20% silt, no fill
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
								Analytical Samples collected from 0 - 2 & 2 - 4 feet



**EXPLORATION LOG
SOIL BORING (S3)**

Boring/Well ID:	S-3	Client:	Lam Engineering, PC
Project Number:	1415450	Project Name:	Phase 2 Subsurface Investigation
Logged By:	CM	Site Address:	31-14 38th Avenue, Long Island City, New York
Date:	12/30/2014	Contractor:	Tri-State Drilling Technologies, Inc.
Total Depth (feet):	4.0	Driller:	PR
		Drilling Method:	Manual

Depth (feet)	Sample Identification	Sample Interval (feet)	Blows per 6 inches	Penetration (inches)	Recovery (inches)	Stratigraphic Unit	PID Jar HS / Remarks	Sample Description
1	S-3	0-5'	NA	48	48		0.0	0-3" Concrete
2							3-8" large cobbles (max 5") & fine to coarse gravel	
3							8-1' brown fine to coarse sand 70%, fine to coarse gravel & cobbles 30%, trace silt	
4							1-2.5' brown fine to coarse sand 85%, fine to coarse gravel 15%, trace silt	
5							~2.5-4' light brown/brown fine to medium sand 95%, trace silt	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Analytical Samples collected from 0 - 2 & 2 - 4 feet



**EXPLORATION LOG
SOIL BORING (S4)**

Boring/Well ID:	S-4	Client:	Lam Engineering, PC
Project Number:	1415450	Project Name:	Phase 2 Subsurface Investigation
Logged By:	CM	Site Address:	31-14 38th Avenue, Long Island City, New York
Date:	12/30/2014	Contractor:	Tri-State Drilling Technologies, Inc.
Total Depth (feet):	15.0	Driller:	PR
		Drilling Method:	Geoprobe

Depth (feet)	Sample Identification	Sample Interval (feet)	Blows per 6 inches	Penetration (inches)	Recovery (inches)	Stratigraphic Unit	PID Jar HS / Remarks	Sample Description
1	S-4	0-5'	NA	60	30		0.0	0-3" Concrete
2								3-17" dark brown fine to medium sand 80%, trace fill (coal) silt 20%
3								17-24" brown/red brown fine to medium sand 75%, fines (silty clay) 20% trace gravel moist
4								21-38" light brown fine sand 85% 15% silt
5	S-4	5-10'		60	45		0.0	0-17" light brown fine sand 85% 15% silt
6								17-30" brown fine sand 80% silty clay 20%
7								30-45" light brown fine sand 90% little fines
8	S-4	10-15'		660	37		0.0	0-37" light brown fine sand 90% little fines
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Analytical Samples collected from 0 - 2 & 12 - 14 feet



**EXPLORATION LOG
SOIL BORING (S5)**

Boring/Well ID:	S-5	Client:	Lam Engineering, PC
Project Number:	1415450	Project Name:	Phase 2 Subsurface Investigation
Logged By:	CM	Site Address:	31-14 38th Avenue, Long Island City, New York
Date:	12/30/2014	Contractor:	Tri-State Drilling Technologies, Inc.
Total Depth (feet):	15.0	Driller:	PR
		Drilling Method:	Geoprobe

Depth (feet)	Sample Identification	Sample Interval (feet)	Blows per 6 inches	Penetration (inches)	Recovery (inches)	Stratigraphic Unit	PID Jar HS / Remarks	Sample Description
1	S-5	0-5'	NA	60	44		0.0	0-3" dark brown fine to medium sand 85%, fine gravel 10% trace fines, little fill (brick, RCA, glass)
2								3-5" light brown fine sand 85%, little silt
3								5-7" dark brown fine to medium sand 85%, fine gravel 10%
4								7-9" concrete
5		5-10'		60	25		0.0	9-31" brown fine to medium sand 75%, silt 20%, trace fine gravel 5%, trace fill in to 2" (broken tile)
6	31-44" brown/brown red fine to medium sand 75%, fines (silty clay) 20%, fine gravel 5%							
7	0-3" brown/brown red fine to medium sand 75%, fines (silty clay) 20%, fine gravel 5%							
8		10-15'		60	34		0.0	3-12" light brown fine sand 85%, silt 15%
9	12-19" light brown/brown fine sand 75%, fines (clayey silt) 25%							
10	12-25" light brown fine sand 85%, silt 15%							
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Analytical Samples collected from 0 - 2 & 12 - 14 feet

Appendix 5

Laboratory Data Sheets



Technical Report

prepared for:

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Nick Recchia

Report Date: 01/08/2015
Client Project ID: 1415450
York Project (SDG) No.: 14L1091

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 01/08/2015
Client Project ID: 1415450
York Project (SDG) No.: 14L1091

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Nick Recchia

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 31, 2014 and listed below. The project was identified as your project: **1415450**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
14L1091-01	S-1 (0-2)	Soil	12/30/2014	12/31/2014
14L1091-02	S-1 (12-14)	Soil	12/30/2014	12/31/2014
14L1091-03	S-4 (0-2)	Soil	12/30/2014	12/31/2014
14L1091-04	S-4 (12-14)	Soil	12/30/2014	12/31/2014
14L1091-05	S-5 (0-2)	Soil	12/30/2014	12/31/2014
14L1091-06	S-5 (12-14)	Soil	12/30/2014	12/31/2014
14L1091-07	S-3 (0-2)	Soil	12/30/2014	12/31/2014
14L1091-08	S-3 (2-4)	Soil	12/30/2014	12/31/2014
14L1091-09	S-2 (0-2)	Soil	12/30/2014	12/31/2014
14L1091-10	S-2 (2-4)	Soil	12/30/2014	12/31/2014
14L1091-11	Trip Blank	Water	12/30/2014	12/31/2014
14L1091-12	GW-3	Water	12/30/2014	12/31/2014
14L1091-13	GW-1	Water	12/30/2014	12/31/2014
14L1091-14	GW-2	Water	12/30/2014	12/31/2014

General Notes for York Project (SDG) No.: 14L1091

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 01/08/2015





Sample Information

Client Sample ID: S-1 (0-2)

York Sample ID: 14L1091-01

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 30, 2014 8:40 am	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	-----------------------	----------------------------------------------------------	------------------------------------

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	57	110	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
67-64-1	Acetone	ND		ug/kg dry	5.7	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
71-43-2	Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
75-25-2	Bromoform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS



Sample Information

Client Sample ID: S-1 (0-2)

York Sample ID: 14L1091-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 8:40 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5.7	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.9	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.7	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
100-42-5	Styrene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
108-88-3	Toluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.6	17	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.9	5.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 17:52	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.8 %			77-125						
460-00-4	Surrogate: p-Bromofluorobenzene	98.2 %			76-130						
2037-26-5	Surrogate: Toluene-d8	99.6 %			85-120						



Sample Information

Client Sample ID: S-1 (0-2)

York Sample ID: 14L1091-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 8:40 am

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
62-53-3	Aniline	ND		ug/kg dry	92.7	185	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
120-12-7	Anthracene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
218-01-9	Chrysene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH



Sample Information

Client Sample ID: S-1 (0-2)

York Sample ID: 14L1091-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 8:40 am

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
86-73-7	Fluorene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
78-59-1	Isophorone	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
91-20-3	Naphthalene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
85-01-8	Phenanthrene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
108-95-2	Phenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
129-00-0	Pyrene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
110-86-1	Pyridine	ND		ug/kg dry	92.7	185	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:18	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: 2-Fluorophenol	54.6 %	10-99
4165-62-2	Surrogate: Phenol-d5	56.3 %	10-108
4165-60-0	Surrogate: Nitrobenzene-d5	52.2 %	10-119
321-60-8	Surrogate: 2-Fluorobiphenyl	55.5 %	10-114
118-79-6	Surrogate: 2,4,6-Tribromophenol	50.4 %	10-106
1718-51-0	Surrogate: Terphenyl-d14	51.7 %	10-123



Sample Information

Client Sample ID: S-1 (0-2)

York Sample ID: 14L1091-01

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 30, 2014 8:40 am	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	-----------------------	----------------------------------------------------------	------------------------------------

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
72-54-8	4,4'-DDD	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
309-00-2	Aldrin	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
57-74-9	Chlordane, total	ND		ug/kg dry	73.3	73.3		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
72-20-8	Endrin	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.83	1.83		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.16	9.16		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
8001-35-2	Toxaphene	ND		ug/kg dry	92.7	92.7		5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:28	JW
	Surrogate Recoveries	Result			Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	87.3 %			30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	109 %			30-140							



Sample Information

Client Sample ID: S-1 (0-2)

York Sample ID: 14L1091-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 8:40 am

12/31/2014

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/02/2015 10:00	01/02/2015 15:33	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/02/2015 10:00	01/02/2015 15:33	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/02/2015 10:00	01/02/2015 15:33	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/02/2015 10:00	01/02/2015 15:33	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/02/2015 10:00	01/02/2015 15:33	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/02/2015 10:00	01/02/2015 15:33	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/02/2015 10:00	01/02/2015 15:33	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/02/2015 10:00	01/02/2015 15:33	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	83.3 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	65.7 %			30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10600		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-36-0	Antimony	ND		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-38-2	Arsenic	2.63		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-39-3	Barium	56.1		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-41-7	Beryllium	ND		mg/kg dry	0.111	0.111	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.333	0.333	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-70-2	Calcium	1070		mg/kg dry	0.555	5.55	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-47-3	Chromium	22.5		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-48-4	Cobalt	9.74		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-50-8	Copper	18.6		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7439-89-6	Iron	18300		mg/kg dry	2.22	2.22	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7439-92-1	Lead	7.20		mg/kg dry	0.333	0.333	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7439-95-4	Magnesium	4700		mg/kg dry	5.55	5.55	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7439-96-5	Manganese	454		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-02-0	Nickel	18.7		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-09-7	Potassium	1130		mg/kg dry	5.55	5.55	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7782-49-2	Selenium	4.37		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-22-4	Silver	ND		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-23-5	Sodium	96.4		mg/kg dry	11.1	11.1	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-28-0	Thallium	ND		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-62-2	Vanadium	30.6		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC
7440-66-6	Zinc	41.6		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:45	AMC



Sample Information

Client Sample ID: S-1 (0-2)

York Sample ID: 14L1091-01

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 14L1091, 1415450, Soil, December 30, 2014 8:40 am, 12/31/2014

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row: 7439-97-6 Mercury ND mg/kg dry 0.0333 0.0333 1 EPA 7473 01/02/2015 07:03 01/02/2015 07:57 ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row: solids * % Solids 90.1 % 0.100 0.100 1 SM 2540G 01/02/2015 09:43 01/02/2015 13:33 KK

Sample Information

Client Sample ID: S-1 (12-14)

York Sample ID: 14L1091-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 14L1091, 1415450, Soil, December 30, 2014 9:00 am, 12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Multiple rows for various organic compounds, all showing ND results.



Sample Information

Client Sample ID: S-1 (12-14)

York Sample ID: 14L1091-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:00 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
67-64-1	Acetone	ND		ug/kg dry	5.2	10	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5.2	10	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.6	10	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS



Sample Information

Client Sample ID: S-1 (12-14)

York Sample ID: 14L1091-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:00 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.7	15	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/05/2015 08:06	01/05/2015 18:27	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %			77-125						
460-00-4	Surrogate: p-Bromofluorobenzene	100 %			76-130						
2037-26-5	Surrogate: Toluene-d8	100 %			85-120						

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
62-53-3	Aniline	ND		ug/kg dry	86.5	173	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
120-12-7	Anthracene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
218-01-9	Chrysene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH



Sample Information

Client Sample ID: S-1 (12-14)

York Sample ID: 14L1091-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:00 am

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	43.2	86.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	43.2	86.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
206-44-0	Fluoranthene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
86-73-7	Fluorene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
78-59-1	Isophorone	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
91-20-3	Naphthalene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	43.2	86.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	43.2	86.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	43.2	86.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	43.2	86.3	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH



Sample Information

Client Sample ID: S-1 (12-14)

York Sample ID: 14L1091-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:00 am

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
108-95-2	Phenol	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
129-00-0	Pyrene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
110-86-1	Pyridine	ND		ug/kg dry	86.5	173	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	21.6	43.2	1	EPA 8270D	01/06/2015 07:10	01/06/2015 22:49	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	71.5 %			10-99						
4165-62-2	Surrogate: Phenol-d5	71.0 %			10-108						
4165-60-0	Surrogate: Nitrobenzene-d5	62.9 %			10-119						
321-60-8	Surrogate: 2-Fluorobiphenyl	67.5 %			10-114						
118-79-6	Surrogate: 2,4,6-Tribromophenol	61.1 %			10-106						
1718-51-0	Surrogate: Terphenyl-d14	65.2 %			10-123						

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
309-00-2	Aldrin	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
57-74-9	Chlordane, total	ND		ug/kg dry	68.3	68.3	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
72-20-8	Endrin	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.71	1.71	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW



Sample Information

Client Sample ID: S-1 (12-14)

York Sample ID: 14L1091-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:00 am

12/31/2014

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	8.54	8.54	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
8001-35-2	Toxaphene	ND		ug/kg dry	86.5	86.5	5	EPA 8081B	01/02/2015 10:00	01/02/2015 16:58	JW
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	86.3 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	109 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:02	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:02	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:02	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:02	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:02	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:02	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:02	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0173	0.0173	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:02	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	76.4 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	62.2 %			30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	4910		mg/kg dry	1.04	1.04	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-36-0	Antimony	ND		mg/kg dry	0.518	0.518	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-38-2	Arsenic	1.63		mg/kg dry	1.04	1.04	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-39-3	Barium	39.0		mg/kg dry	1.04	1.04	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-41-7	Beryllium	ND		mg/kg dry	0.104	0.104	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.311	0.311	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-70-2	Calcium	20300		mg/kg dry	0.518	5.18	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-47-3	Chromium	16.3		mg/kg dry	0.518	0.518	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-48-4	Cobalt	5.53		mg/kg dry	0.518	0.518	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-50-8	Copper	14.2		mg/kg dry	0.518	0.518	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7439-89-6	Iron	10400		mg/kg dry	2.07	2.07	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7439-92-1	Lead	2.29		mg/kg dry	0.311	0.311	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7439-95-4	Magnesium	11400		mg/kg dry	5.18	5.18	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC



Sample Information

Client Sample ID: S-1 (12-14)

York Sample ID: 14L1091-02

York Project (SDG) No. 14L1091	Client Project ID 1415450	Matrix Soil	Collection Date/Time December 30, 2014 9:00 am	Date Received 12/31/2014
-----------------------------------	------------------------------	----------------	---------------------------------------------------	-----------------------------

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	182		mg/kg dry	0.518	0.518	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-02-0	Nickel	13.6		mg/kg dry	0.518	0.518	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-09-7	Potassium	1510		mg/kg dry	5.18	5.18	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7782-49-2	Selenium	2.29		mg/kg dry	1.04	1.04	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-22-4	Silver	ND		mg/kg dry	0.518	0.518	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-23-5	Sodium	167		mg/kg dry	10.4	10.4	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-28-0	Thallium	ND		mg/kg dry	1.04	1.04	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-62-2	Vanadium	17.7		mg/kg dry	1.04	1.04	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC
7440-66-6	Zinc	28.8		mg/kg dry	1.04	1.04	1	EPA 6010C	01/02/2015 09:45	01/02/2015 11:50	AMC

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0311	0.0311	1	EPA 7473	01/02/2015 07:03	01/02/2015 09:52	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	96.6		%	0.100	0.100	1	SM 2540G	01/02/2015 09:43	01/02/2015 13:33	KK

Sample Information

Client Sample ID: S-4 (0-2)

York Sample ID: 14L1091-03

York Project (SDG) No. 14L1091	Client Project ID 1415450	Matrix Soil	Collection Date/Time December 30, 2014 9:10 am	Date Received 12/31/2014
-----------------------------------	------------------------------	----------------	---------------------------------------------------	-----------------------------

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS



Sample Information

Client Sample ID: S-4 (0-2)

York Sample ID: 14L1091-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:10 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	47	93	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
67-64-1	Acetone	ND		ug/kg dry	4.7	9.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
71-43-2	Benzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
75-25-2	Bromoform	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
67-66-3	Chloroform	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS



Sample Information

Client Sample ID: S-4 (0-2)

York Sample ID: 14L1091-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:10 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.7	9.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.3	9.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.7	9.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
100-42-5	Styrene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
108-88-3	Toluene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.0	14	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.3	4.7	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:03	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %	77-125								
460-00-4	Surrogate: p-Bromofluorobenzene	109 %	76-130								
2037-26-5	Surrogate: Toluene-d8	109 %	85-120								



Sample Information

Client Sample ID: S-4 (0-2)

York Sample ID: 14L1091-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:10 am

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
62-53-3	Aniline	ND		ug/kg dry	98.8	198	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
120-12-7	Anthracene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
56-55-3	Benzo(a)anthracene	49.7		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
50-32-8	Benzo(a)pyrene	48.5	J	ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
205-99-2	Benzo(b)fluoranthene	37.5	J	ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
191-24-2	Benzo(g,h,i)perylene	43.4	CCV-E , J	ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
207-08-9	Benzo(k)fluoranthene	45.8	J	ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
218-01-9	Chrysene	52.9		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	49.4	98.6	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	49.4	98.6	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH



Sample Information

Client Sample ID: S-4 (0-2)

York Sample ID: 14L1091-03

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 30, 2014 9:10 am	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	-----------------------	----------------------------------------------------------	------------------------------------

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
206-44-0	Fluoranthene	95.1		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
86-73-7	Fluorene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
193-39-5	Indeno(1,2,3-cd)pyrene	35.5		CCV-E , J ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
78-59-1	Isophorone	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
91-20-3	Naphthalene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	49.4	98.6	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	49.4	98.6	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	49.4	98.6	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	49.4	98.6	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
85-01-8	Phenanthrene	36.7	J	ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
108-95-2	Phenol	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
129-00-0	Pyrene	83.7		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
110-86-1	Pyridine	ND		ug/kg dry	98.8	198	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	24.7	49.4	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:21	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	79.6 %			10-99						
4165-62-2	Surrogate: Phenol-d5	78.4 %			10-108						
4165-60-0	Surrogate: Nitrobenzene-d5	73.4 %			10-119						
321-60-8	Surrogate: 2-Fluorobiphenyl	69.4 %			10-114						
118-79-6	Surrogate: 2,4,6-Tribromophenol	67.2 %			10-106						
1718-51-0	Surrogate: Terphenyl-d14	68.1 %			10-123						



Sample Information

Client Sample ID: S-4 (0-2)

York Sample ID: 14L1091-03

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 30, 2014 9:10 am	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	-----------------------	----------------------------------------------------------	------------------------------------

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
72-54-8	4,4'-DDD	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
309-00-2	Aldrin	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
57-74-9	Chlordane, total	ND		ug/kg dry	78.1	78.1		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
72-20-8	Endrin	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.95	1.95		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.77	9.77		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
8001-35-2	Toxaphene	ND		ug/kg dry	98.8	98.8		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:13	JW
	Surrogate Recoveries	Result			Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	83.9 %			30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	101 %			30-140							



Sample Information

Client Sample ID: S-4 (0-2)

York Sample ID: 14L1091-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:10 am

12/31/2014

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:31	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:31	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:31	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:31	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:31	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:31	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:31	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0197	0.0197	1	EPA 8082A	01/02/2015 10:00	01/02/2015 16:31	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	78.8 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	62.7 %			30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	12000		mg/kg dry	1.18	1.18	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-36-0	Antimony	ND		mg/kg dry	0.592	0.592	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-38-2	Arsenic	6.04		mg/kg dry	1.18	1.18	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-39-3	Barium	74.1		mg/kg dry	1.18	1.18	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-41-7	Beryllium	ND		mg/kg dry	0.118	0.118	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.355	0.355	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-70-2	Calcium	1780		mg/kg dry	0.592	5.92	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-47-3	Chromium	19.0		mg/kg dry	0.592	0.592	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-48-4	Cobalt	6.20		mg/kg dry	0.592	0.592	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-50-8	Copper	32.1		mg/kg dry	0.592	0.592	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7439-89-6	Iron	15700		mg/kg dry	2.37	2.37	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7439-92-1	Lead	156		mg/kg dry	0.355	0.355	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7439-95-4	Magnesium	2380		mg/kg dry	5.92	5.92	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7439-96-5	Manganese	393		mg/kg dry	0.592	0.592	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-02-0	Nickel	14.7		mg/kg dry	0.592	0.592	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-09-7	Potassium	858		mg/kg dry	5.92	5.92	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7782-49-2	Selenium	4.04		mg/kg dry	1.18	1.18	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-22-4	Silver	ND		mg/kg dry	0.592	0.592	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-23-5	Sodium	66.2		mg/kg dry	11.8	11.8	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-28-0	Thallium	ND		mg/kg dry	1.18	1.18	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-62-2	Vanadium	21.8		mg/kg dry	1.18	1.18	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC
7440-66-6	Zinc	49.5		mg/kg dry	1.18	1.18	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:20	AMC



Sample Information

Client Sample ID: S-4 (0-2)

York Sample ID: 14L1091-03

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 30, 2014 9:10 am	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	-----------------------	----------------------------------------------------------	------------------------------------

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.267		mg/kg dry	0.0355	0.0355	1	EPA 7473	01/02/2015 07:03	01/02/2015 10:02	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	84.5		%	0.100	0.100	1	SM 2540G	01/02/2015 09:43	01/02/2015 13:33	KK

Sample Information

Client Sample ID: S-4 (12-14)

York Sample ID: 14L1091-04

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 30, 2014 9:20 am	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	-----------------------	----------------------------------------------------------	------------------------------------

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS



Sample Information

Client Sample ID: S-4 (12-14)

York Sample ID: 14L1091-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:20 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	51	100	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
67-64-1	Acetone	ND		ug/kg dry	5.1	10	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
71-43-2	Benzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5.1	10	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.6	10	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.1	10	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
100-42-5	Styrene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS



Sample Information

Client Sample ID: S-4 (12-14)

York Sample ID: 14L1091-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:20 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
108-88-3	Toluene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.7	15	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.6	5.1	1	EPA 8260C	01/05/2015 08:06	01/05/2015 19:37	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %			77-125						
460-00-4	Surrogate: p-Bromofluorobenzene	97.9 %			76-130						
2037-26-5	Surrogate: Toluene-d8	98.4 %			85-120						

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
62-53-3	Aniline	ND		ug/kg dry	86.2	172	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
120-12-7	Anthracene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
218-01-9	Chrysene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH



Sample Information

Client Sample ID: S-4 (12-14)

York Sample ID: 14L1091-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:20 am

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	43.0	86.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	43.0	86.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
206-44-0	Fluoranthene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
86-73-7	Fluorene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
78-59-1	Isophorone	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
91-20-3	Naphthalene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	43.0	86.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	43.0	86.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	43.0	86.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	43.0	86.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH



Sample Information

Client Sample ID: S-4 (12-14)

York Sample ID: 14L1091-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:20 am

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
108-95-2	Phenol	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
129-00-0	Pyrene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
110-86-1	Pyridine	ND		ug/kg dry	86.2	172	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	21.6	43.0	1	EPA 8270D	01/06/2015 07:10	01/06/2015 23:53	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	51.4 %			10-99						
4165-62-2	Surrogate: Phenol-d5	53.1 %			10-108						
4165-60-0	Surrogate: Nitrobenzene-d5	47.7 %			10-119						
321-60-8	Surrogate: 2-Fluorobiphenyl	53.8 %			10-114						
118-79-6	Surrogate: 2,4,6-Tribromophenol	50.1 %			10-106						
1718-51-0	Surrogate: Terphenyl-d14	53.3 %			10-123						

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
309-00-2	Aldrin	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
57-74-9	Chlordane, total	ND		ug/kg dry	68.1	68.1	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
72-20-8	Endrin	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.70	1.70	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW



Sample Information

Client Sample ID: S-4 (12-14)

York Sample ID: 14L1091-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 9:20 am

12/31/2014

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	8.51	8.51	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
8001-35-2	Toxaphene	ND		ug/kg dry	86.2	86.2	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:28	JW
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	88.8 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	110 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:00	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:00	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:00	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:00	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:00	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:00	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:00	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:00	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	73.9 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	59.7 %			30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	4560		mg/kg dry	1.03	1.03	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-36-0	Antimony	ND		mg/kg dry	0.516	0.516	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-38-2	Arsenic	1.65		mg/kg dry	1.03	1.03	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-39-3	Barium	23.6		mg/kg dry	1.03	1.03	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-41-7	Beryllium	ND		mg/kg dry	0.103	0.103	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.310	0.310	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-70-2	Calcium	2080		mg/kg dry	0.516	5.16	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-47-3	Chromium	12.4		mg/kg dry	0.516	0.516	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-48-4	Cobalt	5.32		mg/kg dry	0.516	0.516	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-50-8	Copper	11.7		mg/kg dry	0.516	0.516	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7439-89-6	Iron	10200		mg/kg dry	2.06	2.06	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7439-92-1	Lead	2.12		mg/kg dry	0.310	0.310	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7439-95-4	Magnesium	3140		mg/kg dry	5.16	5.16	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC



Sample Information

Client Sample ID: S-4 (12-14)

York Sample ID: 14L1091-04

York Project (SDG) No. 14L1091	Client Project ID 1415450	Matrix Soil	Collection Date/Time December 30, 2014 9:20 am	Date Received 12/31/2014
-----------------------------------	------------------------------	----------------	---------------------------------------------------	-----------------------------

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	204		mg/kg dry	0.516	0.516	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-02-0	Nickel	14.0		mg/kg dry	0.516	0.516	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-09-7	Potassium	755		mg/kg dry	5.16	5.16	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7782-49-2	Selenium	2.52		mg/kg dry	1.03	1.03	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-22-4	Silver	ND		mg/kg dry	0.516	0.516	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-23-5	Sodium	142		mg/kg dry	10.3	10.3	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-28-0	Thallium	ND		mg/kg dry	1.03	1.03	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-62-2	Vanadium	17.2		mg/kg dry	1.03	1.03	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC
7440-66-6	Zinc	24.4		mg/kg dry	1.03	1.03	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:24	AMC

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0310	0.0310	1	EPA 7473	01/02/2015 07:03	01/02/2015 10:11	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	96.9		%	0.100	0.100	1	SM 2540G	01/02/2015 09:43	01/02/2015 13:33	KK

Sample Information

Client Sample ID: S-5 (0-2)

York Sample ID: 14L1091-05

York Project (SDG) No. 14L1091	Client Project ID 1415450	Matrix Soil	Collection Date/Time December 30, 2014 11:20 am	Date Received 12/31/2014
-----------------------------------	------------------------------	----------------	----------------------------------------------------	-----------------------------

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS



Sample Information

Client Sample ID: S-5 (0-2)

York Sample ID: 14L1091-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:20 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	56	110	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
67-64-1	Acetone	ND		ug/kg dry	5.6	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
71-43-2	Benzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
75-25-2	Bromoform	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS



Sample Information

Client Sample ID: S-5 (0-2)

York Sample ID: 14L1091-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:20 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5.6	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.6	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
100-42-5	Styrene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
108-88-3	Toluene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.3	17	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.8	5.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:13	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %			77-125						
460-00-4	Surrogate: p-Bromofluorobenzene	107 %			76-130						
2037-26-5	Surrogate: Toluene-d8	103 %			85-120						



Sample Information

Client Sample ID: S-5 (0-2)

York Sample ID: 14L1091-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:20 am

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	351		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
62-53-3	Aniline	ND		ug/kg dry	191	383	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
120-12-7	Anthracene	695		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
56-55-3	Benzo(a)anthracene	1180	CCV-E	ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
50-32-8	Benzo(a)pyrene	660		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
205-99-2	Benzo(b)fluoranthene	682		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
191-24-2	Benzo(g,h,i)perylene	528		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
207-08-9	Benzo(k)fluoranthene	834	CCV-E	ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
85-68-7	Benzyl butyl phthalate	397		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
218-01-9	Chrysene	2070		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
53-70-3	Dibenzo(a,h)anthracene	97.0		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
132-64-9	Dibenzofuran	147		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
84-74-2	Di-n-butyl phthalate	316		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	95.6	191	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	95.6	191	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR



Sample Information

Client Sample ID: S-5 (0-2)

York Sample ID: 14L1091-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:20 am

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	3440		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
86-73-7	Fluorene	261		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
193-39-5	Indeno(1,2,3-cd)pyrene	496		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
78-59-1	Isophorone	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
91-57-6	2-Methylnaphthalene	147		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
91-20-3	Naphthalene	151		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	95.6	191	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	95.6	191	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	95.6	191	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	95.6	191	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
85-01-8	Phenanthrene	2710		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
108-95-2	Phenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
129-00-0	Pyrene	2890		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
110-86-1	Pyridine	ND		ug/kg dry	191	383	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/06/2015 07:10	01/08/2015 01:55	SR

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: 2-Fluorophenol	45.3 %	10-99
4165-62-2	Surrogate: Phenol-d5	55.6 %	10-108
4165-60-0	Surrogate: Nitrobenzene-d5	60.4 %	10-119
321-60-8	Surrogate: 2-Fluorobiphenyl	62.2 %	10-114
118-79-6	Surrogate: 2,4,6-Tribromophenol	46.2 %	10-106
1718-51-0	Surrogate: Terphenyl-d14	54.3 %	10-123



Sample Information

Client Sample ID: S-5 (0-2)

York Sample ID: 14L1091-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:20 am

12/31/2014

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
72-54-8	4,4'-DDD	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
309-00-2	Aldrin	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
57-74-9	Chlordane, total	ND		ug/kg dry	75.6	75.6		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
72-20-8	Endrin	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.46	9.46		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
8001-35-2	Toxaphene	ND		ug/kg dry	95.7	95.7		5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:43	JW
	Surrogate Recoveries	Result			Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	81.6 %			30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	82.5 %			30-140							



Sample Information

Client Sample ID: S-5 (0-2)

York Sample ID: 14L1091-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:20 am

12/31/2014

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:30	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:30	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:30	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:30	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:30	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:30	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:30	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:30	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	71.4 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	56.7 %			30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	16000		mg/kg dry	1.15	1.15	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-36-0	Antimony	1.10		mg/kg dry	0.573	0.573	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-38-2	Arsenic	16.4		mg/kg dry	1.15	1.15	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-39-3	Barium	433		mg/kg dry	1.15	1.15	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-41-7	Beryllium	ND		mg/kg dry	0.115	0.115	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-43-9	Cadmium	0.516		mg/kg dry	0.344	0.344	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-70-2	Calcium	8220		mg/kg dry	0.573	5.73	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-47-3	Chromium	68.2		mg/kg dry	0.573	0.573	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-48-4	Cobalt	8.42		mg/kg dry	0.573	0.573	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-50-8	Copper	375		mg/kg dry	0.573	0.573	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7439-89-6	Iron	43700		mg/kg dry	2.29	2.29	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7439-92-1	Lead	648		mg/kg dry	0.344	0.344	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7439-95-4	Magnesium	2900		mg/kg dry	5.73	5.73	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7439-96-5	Manganese	201		mg/kg dry	0.573	0.573	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-02-0	Nickel	43.2		mg/kg dry	0.573	0.573	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-09-7	Potassium	1510		mg/kg dry	5.73	5.73	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7782-49-2	Selenium	8.93		mg/kg dry	1.15	1.15	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-22-4	Silver	ND		mg/kg dry	0.573	0.573	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-23-5	Sodium	650		mg/kg dry	11.5	11.5	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-28-0	Thallium	ND		mg/kg dry	1.15	1.15	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-62-2	Vanadium	64.1		mg/kg dry	1.15	1.15	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC
7440-66-6	Zinc	340		mg/kg dry	1.15	1.15	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:29	AMC



Sample Information

Client Sample ID: S-5 (0-2)

York Sample ID: 14L1091-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:20 am

12/31/2014

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.300		mg/kg dry	0.0344	0.0344	1	EPA 7473	01/02/2015 07:03	01/02/2015 10:20	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.2		%	0.100	0.100	1	SM 2540G	01/02/2015 09:43	01/02/2015 13:33	KK

Sample Information

Client Sample ID: S-5 (12-14)

York Sample ID: 14L1091-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:30 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS



Sample Information

Client Sample ID: S-5 (12-14)

York Sample ID: 14L1091-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:30 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	53	110	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
67-64-1	Acetone	ND		ug/kg dry	5.3	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
71-43-2	Benzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
75-25-2	Bromoform	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5.3	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
100-42-5	Styrene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS



Sample Information

Client Sample ID: S-5 (12-14)

York Sample ID: 14L1091-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:30 am

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
108-88-3	Toluene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.0	16	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 20:48	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %			77-125						
460-00-4	Surrogate: p-Bromofluorobenzene	94.1 %			76-130						
2037-26-5	Surrogate: Toluene-d8	97.6 %			85-120						

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
62-53-3	Aniline	ND		ug/kg dry	92.3	185	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
120-12-7	Anthracene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
218-01-9	Chrysene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH



Sample Information

Client Sample ID: S-5 (12-14)

York Sample ID: 14L1091-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:30 am

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	46.1	92.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	46.1	92.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
206-44-0	Fluoranthene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
86-73-7	Fluorene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
78-59-1	Isophorone	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
91-20-3	Naphthalene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.1	92.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	46.1	92.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	46.1	92.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	46.1	92.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH



Sample Information

Client Sample ID: S-5 (12-14)

York Sample ID: 14L1091-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:30 am

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
108-95-2	Phenol	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
129-00-0	Pyrene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
110-86-1	Pyridine	ND		ug/kg dry	92.3	185	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	23.1	46.1	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:25	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	75.4 %			10-99						
4165-62-2	Surrogate: Phenol-d5	76.2 %			10-108						
4165-60-0	Surrogate: Nitrobenzene-d5	65.4 %			10-119						
321-60-8	Surrogate: 2-Fluorobiphenyl	68.1 %			10-114						
118-79-6	Surrogate: 2,4,6-Tribromophenol	62.8 %			10-106						
1718-51-0	Surrogate: Terphenyl-d14	65.2 %			10-123						

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
309-00-2	Aldrin	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
57-74-9	Chlordane, total	ND		ug/kg dry	73.0	73.0	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
72-20-8	Endrin	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.82	1.82	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW



Sample Information

Client Sample ID: S-5 (12-14)

York Sample ID: 14L1091-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 11:30 am

12/31/2014

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	9.12	9.12	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
8001-35-2	Toxaphene	ND		ug/kg dry	92.3	92.3	5	EPA 8081B	01/02/2015 10:00	01/02/2015 17:58	JW
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	94.9 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	117 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:59	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:59	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:59	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:59	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:59	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:59	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:59	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A	01/02/2015 10:00	01/02/2015 17:59	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	83.7 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	68.2 %			30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6880		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-36-0	Antimony	ND		mg/kg dry	0.553	0.553	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-38-2	Arsenic	1.72		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-39-3	Barium	50.3		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-41-7	Beryllium	ND		mg/kg dry	0.111	0.111	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.332	0.332	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-70-2	Calcium	2010		mg/kg dry	0.553	5.53	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-47-3	Chromium	14.7		mg/kg dry	0.553	0.553	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-48-4	Cobalt	7.47		mg/kg dry	0.553	0.553	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-50-8	Copper	14.9		mg/kg dry	0.553	0.553	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7439-89-6	Iron	13700		mg/kg dry	2.21	2.21	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7439-92-1	Lead	2.89		mg/kg dry	0.332	0.332	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7439-95-4	Magnesium	3310		mg/kg dry	5.53	5.53	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC



Sample Information

Client Sample ID: S-5 (12-14)

York Sample ID: 14L1091-06

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 30, 2014 11:30 am	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	-----------------------	-----------------------------------------------------------	------------------------------------

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	321		mg/kg dry	0.553	0.553	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-02-0	Nickel	16.8		mg/kg dry	0.553	0.553	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-09-7	Potassium	1210		mg/kg dry	5.53	5.53	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7782-49-2	Selenium	3.34		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-22-4	Silver	ND		mg/kg dry	0.553	0.553	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-23-5	Sodium	108		mg/kg dry	11.1	11.1	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-28-0	Thallium	ND		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-62-2	Vanadium	22.9		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC
7440-66-6	Zinc	29.9		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:37	AMC

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0332	0.0332	1	EPA 7473	01/02/2015 07:03	01/02/2015 10:29	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	90.4		%	0.100	0.100	1	SM 2540G	01/02/2015 09:43	01/02/2015 13:33	KK

Sample Information

Client Sample ID: S-3 (0-2)

York Sample ID: 14L1091-07

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 30, 2014 12:05 pm	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	-----------------------	-----------------------------------------------------------	------------------------------------

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS



Sample Information

Client Sample ID: S-3 (0-2)

York Sample ID: 14L1091-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:05 pm

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	43	86	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
67-64-1	Acetone	ND		ug/kg dry	4.3	8.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
71-43-2	Benzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
75-25-2	Bromoform	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
67-66-3	Chloroform	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS



Sample Information

Client Sample ID: S-3 (0-2)

York Sample ID: 14L1091-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:05 pm

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.3	8.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.2	8.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.3	8.6	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
100-42-5	Styrene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
108-88-3	Toluene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.5	13	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:06	01/05/2015 21:23	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %			77-125						
460-00-4	Surrogate: p-Bromofluorobenzene	97.8 %			76-130						
2037-26-5	Surrogate: Toluene-d8	99.0 %			85-120						



Sample Information

Client Sample ID: S-3 (0-2)

York Sample ID: 14L1091-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:05 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
62-53-3	Aniline	ND		ug/kg dry	87.6	175	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
120-12-7	Anthracene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
218-01-9	Chrysene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	43.7	87.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	43.7	87.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH



Sample Information

Client Sample ID: S-3 (0-2)

York Sample ID: 14L1091-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:05 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
86-73-7	Fluorene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
78-59-1	Isophorone	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
91-20-3	Naphthalene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	43.7	87.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	43.7	87.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	43.7	87.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	43.7	87.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
85-01-8	Phenanthrene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
108-95-2	Phenol	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
129-00-0	Pyrene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
110-86-1	Pyridine	ND		ug/kg dry	87.6	175	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	21.9	43.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 23:37	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	93.4 %			10-99						
4165-62-2	Surrogate: Phenol-d5	94.3 %			10-108						
4165-60-0	Surrogate: Nitrobenzene-d5	88.2 %			10-119						
321-60-8	Surrogate: 2-Fluorobiphenyl	91.8 %			10-114						
118-79-6	Surrogate: 2,4,6-Tribromophenol	78.3 %			10-106						
1718-51-0	Surrogate: Terphenyl-d14	116 %			10-123						



Sample Information

Client Sample ID: S-3 (0-2)

York Sample ID: 14L1091-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:05 pm

12/31/2014

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
72-54-8	4,4'-DDDD	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
309-00-2	Aldrin	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
57-74-9	Chlordane, total	ND		ug/kg dry	69.2	69.2		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
72-20-8	Endrin	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.73	1.73		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
72-43-5	Methoxychlor	ND		ug/kg dry	8.65	8.65		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
8001-35-2	Toxaphene	ND		ug/kg dry	87.6	87.6		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:03	JW
	Surrogate Recoveries	Result			Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	101 %			30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	111 %			30-140							



Sample Information

Client Sample ID: S-3 (0-2)

York Sample ID: 14L1091-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:05 pm

12/31/2014

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A	01/05/2015 07:02	01/05/2015 17:43	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A	01/05/2015 07:02	01/05/2015 17:43	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A	01/05/2015 07:02	01/05/2015 17:43	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A	01/05/2015 07:02	01/05/2015 17:43	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A	01/05/2015 07:02	01/05/2015 17:43	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A	01/05/2015 07:02	01/05/2015 17:43	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A	01/05/2015 07:02	01/05/2015 17:43	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A	01/05/2015 07:02	01/05/2015 17:43	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	96.1 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	67.2 %			30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	4600		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-36-0	Antimony	ND		mg/kg dry	0.524	0.524	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-38-2	Arsenic	1.62		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-39-3	Barium	34.0		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-41-7	Beryllium	ND		mg/kg dry	0.105	0.105	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.315	0.315	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-70-2	Calcium	2690		mg/kg dry	0.524	5.24	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-47-3	Chromium	12.3		mg/kg dry	0.524	0.524	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-48-4	Cobalt	5.26		mg/kg dry	0.524	0.524	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-50-8	Copper	16.2		mg/kg dry	0.524	0.524	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7439-89-6	Iron	11000		mg/kg dry	2.10	2.10	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7439-92-1	Lead	7.16		mg/kg dry	0.315	0.315	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7439-95-4	Magnesium	2170		mg/kg dry	5.24	5.24	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7439-96-5	Manganese	228		mg/kg dry	0.524	0.524	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-02-0	Nickel	11.6		mg/kg dry	0.524	0.524	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-09-7	Potassium	917		mg/kg dry	5.24	5.24	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7782-49-2	Selenium	2.80		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-22-4	Silver	ND		mg/kg dry	0.524	0.524	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-23-5	Sodium	125		mg/kg dry	10.5	10.5	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-28-0	Thallium	ND		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-62-2	Vanadium	18.6		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC
7440-66-6	Zinc	21.7		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:42	AMC



Sample Information

Client Sample ID: S-3 (0-2)

York Sample ID: 14L1091-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:05 pm

12/31/2014

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-97-6 Mercury ND mg/kg dry 0.0315 0.0315 1 EPA 7473 01/02/2015 07:03 01/02/2015 10:38 ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids * % Solids 95.4 % 0.100 0.100 1 SM 2540G 01/02/2015 09:43 01/02/2015 13:33 KK

Sample Information

Client Sample ID: S-3 (2-4)

York Sample ID: 14L1091-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:20 pm

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include: 630-20-6 1,1,1,2-Tetrachloroethane ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 71-55-6 1,1,1-Trichloroethane ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 79-34-5 1,1,2,2-Tetrachloroethane ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 76-13-1 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 79-00-5 1,1,2-Trichloroethane ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 75-34-3 1,1-Dichloroethane ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 75-35-4 1,1-Dichloroethylene ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 563-58-6 1,1-Dichloropropylene ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 87-61-6 1,2,3-Trichlorobenzene ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 96-18-4 1,2,3-Trichloropropane ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 120-82-1 1,2,4-Trichlorobenzene ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 95-63-6 1,2,4-Trimethylbenzene ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 96-12-8 1,2-Dibromo-3-chloropropane ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 106-93-4 1,2-Dibromoethane ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 95-50-1 1,2-Dichlorobenzene ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 107-06-2 1,2-Dichloroethane ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 78-87-5 1,2-Dichloropropane ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK; 108-67-8 1,3,5-Trimethylbenzene ND ug/kg dry 2.2 4.3 1 EPA 8260C 01/05/2015 08:13 01/05/2015 15:21 BK



Sample Information

Client Sample ID: S-3 (2-4)

York Sample ID: 14L1091-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:20 pm

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	43	86	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
67-64-1	Acetone	5.7	Cal-E, J	ug/kg dry	4.3	8.6	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
71-43-2	Benzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
108-86-1	Bromobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
75-25-2	Bromoform	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
67-66-3	Chloroform	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
75-09-2	Methylene chloride	ND		ug/kg dry	4.3	8.6	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
91-20-3	Naphthalene	ND		ug/kg dry	2.2	8.6	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.3	8.6	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
100-42-5	Styrene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK



Sample Information

Client Sample ID: S-3 (2-4)

York Sample ID: 14L1091-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:20 pm

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
108-88-3	Toluene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.5	13	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
108-05-4	Vinyl acetate	ND		ug/kg dry	2.2	4.3	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:21	BK
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	105 %			77-125						
460-00-4	Surrogate: p-Bromofluorobenzene	108 %			76-130						
2037-26-5	Surrogate: Toluene-d8	104 %			85-120						

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
62-53-3	Aniline	ND		ug/kg dry	87.4	175	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
120-12-7	Anthracene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
218-01-9	Chrysene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH



Sample Information

Client Sample ID: S-3 (2-4)

York Sample ID: 14L1091-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:20 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	43.6	87.2	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	43.6	87.2	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
206-44-0	Fluoranthene	34.2	J	ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
86-73-7	Fluorene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
78-59-1	Isophorone	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
91-20-3	Naphthalene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	43.6	87.2	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	43.6	87.2	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	43.6	87.2	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	43.6	87.2	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH



Sample Information

Client Sample ID: S-3 (2-4)

York Sample ID: 14L1091-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:20 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
108-95-2	Phenol	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
129-00-0	Pyrene	28.9	J	ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
110-86-1	Pyridine	ND		ug/kg dry	87.4	175	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	21.9	43.6	1	EPA 8270D	01/06/2015 07:10	01/07/2015 00:56	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	71.6 %			10-99						
4165-62-2	Surrogate: Phenol-d5	72.7 %			10-108						
4165-60-0	Surrogate: Nitrobenzene-d5	67.0 %			10-119						
321-60-8	Surrogate: 2-Fluorobiphenyl	69.3 %			10-114						
118-79-6	Surrogate: 2,4,6-Tribromophenol	65.0 %			10-106						
1718-51-0	Surrogate: Terphenyl-d14	69.1 %			10-123						

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
309-00-2	Aldrin	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
57-74-9	Chlordane, total	ND		ug/kg dry	69.1	69.1	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
72-20-8	Endrin	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.73	1.73	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW



Sample Information

Client Sample ID: S-3 (2-4)

York Sample ID: 14L1091-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:20 pm

12/31/2014

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	8.63	8.63	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
8001-35-2	Toxaphene	ND		ug/kg dry	87.4	87.4	5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:34	JW
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	102 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	107 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A	01/05/2015 07:02	01/05/2015 18:42	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A	01/05/2015 07:02	01/05/2015 18:42	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A	01/05/2015 07:02	01/05/2015 18:42	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A	01/05/2015 07:02	01/05/2015 18:42	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A	01/05/2015 07:02	01/05/2015 18:42	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A	01/05/2015 07:02	01/05/2015 18:42	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A	01/05/2015 07:02	01/05/2015 18:42	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A	01/05/2015 07:02	01/05/2015 18:42	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	98.0 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	74.1 %			30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5500		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-36-0	Antimony	ND		mg/kg dry	0.523	0.523	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-38-2	Arsenic	2.29		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-39-3	Barium	53.2		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-41-7	Beryllium	ND		mg/kg dry	0.105	0.105	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.314	0.314	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-70-2	Calcium	2750		mg/kg dry	0.523	5.23	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-47-3	Chromium	13.7		mg/kg dry	0.523	0.523	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-48-4	Cobalt	5.76		mg/kg dry	0.523	0.523	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-50-8	Copper	19.4		mg/kg dry	0.523	0.523	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7439-89-6	Iron	14700		mg/kg dry	2.09	2.09	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7439-92-1	Lead	11.0		mg/kg dry	0.314	0.314	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7439-95-4	Magnesium	2270		mg/kg dry	5.23	5.23	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC



Sample Information

Client Sample ID: S-3 (2-4)

York Sample ID: 14L1091-08

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 30, 2014 12:20 pm	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	-----------------------	-----------------------------------------------------------	------------------------------------

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	223		mg/kg dry	0.523	0.523	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-02-0	Nickel	13.5		mg/kg dry	0.523	0.523	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-09-7	Potassium	1060		mg/kg dry	5.23	5.23	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7782-49-2	Selenium	3.25		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-22-4	Silver	ND		mg/kg dry	0.523	0.523	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-23-5	Sodium	193		mg/kg dry	10.5	10.5	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-28-0	Thallium	ND		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-62-2	Vanadium	27.7		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC
7440-66-6	Zinc	24.8		mg/kg dry	1.05	1.05	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:46	AMC

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0314	0.0314	1	EPA 7473	01/02/2015 07:03	01/02/2015 10:47	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	95.6		%	0.100	0.100	1	SM 2540G	01/02/2015 09:43	01/02/2015 13:33	KK

Sample Information

Client Sample ID: S-2 (0-2)

York Sample ID: 14L1091-09

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 30, 2014 12:55 pm	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	-----------------------	-----------------------------------------------------------	------------------------------------

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK



Sample Information

Client Sample ID: S-2 (0-2)

York Sample ID: 14L1091-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:55 pm

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	59	120	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
78-93-3	2-Butanone	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
67-64-1	Acetone	ND		ug/kg dry	5.9	12	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
71-43-2	Benzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
108-86-1	Bromobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
75-25-2	Bromoform	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
75-00-3	Chloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
67-66-3	Chloroform	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
74-87-3	Chloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
74-95-3	Dibromomethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK



Sample Information

Client Sample ID: S-2 (0-2)

York Sample ID: 14L1091-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:55 pm

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
75-09-2	Methylene chloride	ND		ug/kg dry	5.9	12	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
91-20-3	Naphthalene	ND		ug/kg dry	3.0	12	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
95-47-6	o-Xylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.9	12	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
100-42-5	Styrene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
108-88-3	Toluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.9	18	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
108-05-4	Vinyl acetate	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 15:57	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	111 %	77-125								
460-00-4	Surrogate: p-Bromofluorobenzene	104 %	76-130								
2037-26-5	Surrogate: Toluene-d8	101 %	85-120								



Sample Information

Client Sample ID: S-2 (0-2)

York Sample ID: 14L1091-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:55 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
62-53-3	Aniline	ND		ug/kg dry	95.5	191	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
120-12-7	Anthracene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
218-01-9	Chrysene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	47.7	95.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	47.7	95.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH



Sample Information

Client Sample ID: S-2 (0-2)

York Sample ID: 14L1091-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:55 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
86-73-7	Fluorene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
78-59-1	Isophorone	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
91-20-3	Naphthalene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	47.7	95.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	47.7	95.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	47.7	95.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	47.7	95.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
85-01-8	Phenanthrene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
108-95-2	Phenol	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
129-00-0	Pyrene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
110-86-1	Pyridine	ND		ug/kg dry	95.5	191	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	23.9	47.7	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:28	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	65.1 %			10-99						
4165-62-2	Surrogate: Phenol-d5	65.0 %			10-108						
4165-60-0	Surrogate: Nitrobenzene-d5	59.6 %			10-119						
321-60-8	Surrogate: 2-Fluorobiphenyl	61.4 %			10-114						
118-79-6	Surrogate: 2,4,6-Tribromophenol	58.6 %			10-106						
1718-51-0	Surrogate: Terphenyl-d14	61.9 %			10-123						



Sample Information

Client Sample ID: S-2 (0-2)

York Sample ID: 14L1091-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:55 pm

12/31/2014

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
72-54-8	4,4'-DDD	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
309-00-2	Aldrin	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
57-74-9	Chlordane, total	ND		ug/kg dry	75.5	75.5		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
72-20-8	Endrin	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.89	1.89		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.43	9.43		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
8001-35-2	Toxaphene	ND		ug/kg dry	95.5	95.5		5	EPA 8081B	01/05/2015 07:02	01/06/2015 10:49	JW
	Surrogate Recoveries	Result			Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	73.0 %			30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	74.9 %			30-140							



Sample Information

Client Sample ID: S-2 (0-2)

York Sample ID: 14L1091-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:55 pm

12/31/2014

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:11	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:11	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:11	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:11	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:11	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:11	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:11	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:11	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	67.0 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	50.2 %			30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	12800		mg/kg dry	1.14	1.14	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-36-0	Antimony	ND		mg/kg dry	0.572	0.572	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-38-2	Arsenic	2.89		mg/kg dry	1.14	1.14	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-39-3	Barium	62.3		mg/kg dry	1.14	1.14	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-41-7	Beryllium	ND		mg/kg dry	0.114	0.114	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.343	0.343	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-70-2	Calcium	2450		mg/kg dry	0.572	5.72	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-47-3	Chromium	35.5		mg/kg dry	0.572	0.572	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-48-4	Cobalt	10.6		mg/kg dry	0.572	0.572	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-50-8	Copper	22.2		mg/kg dry	0.572	0.572	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7439-89-6	Iron	21100		mg/kg dry	2.29	2.29	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7439-92-1	Lead	6.86		mg/kg dry	0.343	0.343	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7439-95-4	Magnesium	5670		mg/kg dry	5.72	5.72	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7439-96-5	Manganese	355		mg/kg dry	0.572	0.572	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-02-0	Nickel	22.7		mg/kg dry	0.572	0.572	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-09-7	Potassium	1560		mg/kg dry	5.72	5.72	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7782-49-2	Selenium	4.62		mg/kg dry	1.14	1.14	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-22-4	Silver	ND		mg/kg dry	0.572	0.572	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-23-5	Sodium	101		mg/kg dry	11.4	11.4	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-28-0	Thallium	ND		mg/kg dry	1.14	1.14	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-62-2	Vanadium	34.7		mg/kg dry	1.14	1.14	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC
7440-66-6	Zinc	44.0		mg/kg dry	1.14	1.14	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:51	AMC



Sample Information

Client Sample ID: S-2 (0-2)

York Sample ID: 14L1091-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 12:55 pm

12/31/2014

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0343	0.0343	1	EPA 7473	01/02/2015 07:03	01/02/2015 10:56	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.4		%	0.100	0.100	1	SM 2540G	01/02/2015 09:43	01/02/2015 13:33	KK

Sample Information

Client Sample ID: S-2 (2-4)

York Sample ID: 14L1091-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 1:05 pm

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK



Sample Information

Client Sample ID: S-2 (2-4)

York Sample ID: 14L1091-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 1:05 pm

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	59	120	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
78-93-3	2-Butanone	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
67-64-1	Acetone	10	Cal-E, J	ug/kg dry	5.9	12	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
71-43-2	Benzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
108-86-1	Bromobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
75-25-2	Bromoform	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
75-00-3	Chloroethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
67-66-3	Chloroform	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
74-87-3	Chloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
74-95-3	Dibromomethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
75-09-2	Methylene chloride	ND		ug/kg dry	5.9	12	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
91-20-3	Naphthalene	ND		ug/kg dry	3.0	12	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
95-47-6	o-Xylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.9	12	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
100-42-5	Styrene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK



Sample Information

Client Sample ID: S-2 (2-4)

York Sample ID: 14L1091-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 1:05 pm

12/31/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
108-88-3	Toluene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.9	18	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
108-05-4	Vinyl acetate	ND		ug/kg dry	3.0	5.9	1	EPA 8260C	01/05/2015 08:13	01/05/2015 16:33	BK
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	116 %			77-125						
460-00-4	Surrogate: p-Bromofluorobenzene	109 %			76-130						
2037-26-5	Surrogate: Toluene-d8	99.9 %			85-120						

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
62-53-3	Aniline	ND		ug/kg dry	92.7	185	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
120-12-7	Anthracene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
218-01-9	Chrysene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH



Sample Information

Client Sample ID: S-2 (2-4)

York Sample ID: 14L1091-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 1:05 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
206-44-0	Fluoranthene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
86-73-7	Fluorene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
78-59-1	Isophorone	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
91-20-3	Naphthalene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	46.3	92.5	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH



Sample Information

Client Sample ID: S-2 (2-4)

York Sample ID: 14L1091-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 1:05 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
108-95-2	Phenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
129-00-0	Pyrene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
110-86-1	Pyridine	ND		ug/kg dry	92.7	185	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	23.2	46.3	1	EPA 8270D	01/06/2015 07:10	01/07/2015 01:59	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	53.9 %	10-99								
4165-62-2	Surrogate: Phenol-d5	53.6 %	10-108								
4165-60-0	Surrogate: Nitrobenzene-d5	49.2 %	10-119								
321-60-8	Surrogate: 2-Fluorobiphenyl	52.2 %	10-114								
118-79-6	Surrogate: 2,4,6-Tribromophenol	48.8 %	10-106								
1718-51-0	Surrogate: Terphenyl-d14	48.3 %	10-123								

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
309-00-2	Aldrin	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
57-74-9	Chlordane, total	ND		ug/kg dry	73.3	73.3	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
72-20-8	Endrin	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.83	1.83	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW



Sample Information

Client Sample ID: S-2 (2-4)

York Sample ID: 14L1091-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Soil

December 30, 2014 1:05 pm

12/31/2014

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	9.16	9.16	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
8001-35-2	Toxaphene	ND		ug/kg dry	92.7	92.7	5	EPA 8081B	01/05/2015 07:02	01/06/2015 11:04	JW
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	90.2 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	94.1 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:40	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:40	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:40	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:40	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:40	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:40	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:40	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0185	0.0185	1	EPA 8082A	01/05/2015 07:02	01/05/2015 19:40	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	82.8 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	66.7 %			30-140						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	11100		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-36-0	Antimony	ND		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-38-2	Arsenic	3.04		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-39-3	Barium	70.9		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-41-7	Beryllium	ND		mg/kg dry	0.111	0.111	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.333	0.333	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-70-2	Calcium	1970		mg/kg dry	0.555	5.55	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-47-3	Chromium	25.0		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-48-4	Cobalt	10.8		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-50-8	Copper	21.8		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7439-89-6	Iron	20400		mg/kg dry	2.22	2.22	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7439-92-1	Lead	4.16		mg/kg dry	0.333	0.333	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7439-95-4	Magnesium	5480		mg/kg dry	5.55	5.55	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC



Sample Information

Client Sample ID: S-2 (2-4)

York Sample ID: 14L1091-10

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Soil	<u>Collection Date/Time</u> December 30, 2014 1:05 pm	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	-----------------------	----------------------------------------------------------	------------------------------------

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	429		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-02-0	Nickel	23.7		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-09-7	Potassium	1950		mg/kg dry	5.55	5.55	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7782-49-2	Selenium	4.71		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-22-4	Silver	ND		mg/kg dry	0.555	0.555	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-23-5	Sodium	113		mg/kg dry	11.1	11.1	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-28-0	Thallium	ND		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-62-2	Vanadium	33.9		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC
7440-66-6	Zinc	51.2		mg/kg dry	1.11	1.11	1	EPA 6010C	01/02/2015 09:45	01/02/2015 12:56	AMC

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0333	0.0333	1	EPA 7473	01/02/2015 07:03	01/02/2015 11:06	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	90.1		%	0.100	0.100	1	SM 2540G	01/02/2015 09:43	01/02/2015 13:33	KK

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 14L1091-11

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 30, 2014 3:00 pm	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	------------------------	----------------------------------------------------------	------------------------------------

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 14L1091-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 3:00 pm

12/31/2014

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
527-53-7	1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 14L1091-11

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 30, 2014 3:00 pm	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	------------------------	----------------------------------------------------------	------------------------------------

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
105-05-5	p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
622-96-8	p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	01/05/2015 08:41	01/05/2015 14:28	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	113 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	100 %			79-122						
2037-26-5	Surrogate: Toluene-d8	99.0 %			81-117						

Sample Information

Client Sample ID: GW-3

York Sample ID: 14L1091-12

<u>York Project (SDG) No.</u> 14L1091	<u>Client Project ID</u> 1415450	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 30, 2014 1:30 pm	<u>Date Received</u> 12/31/2014
------------------------------------------	-------------------------------------	------------------------	----------------------------------------------------------	------------------------------------

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: GW-3

York Sample ID: 14L1091-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 1:30 pm

12/31/2014

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
527-53-7	1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS



Sample Information

Client Sample ID: GW-3

York Sample ID: 14L1091-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 1:30 pm

12/31/2014

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
105-05-5	p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
622-96-8	p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
127-18-4	Tetrachloroethylene	0.46	J	ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
79-01-6	Trichloroethylene	1.8		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:00	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	110 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	104 %			79-122						
2037-26-5	Surrogate: Toluene-d8	99.4 %			81-117						



Sample Information

Client Sample ID: GW-3

York Sample ID: 14L1091-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 1:30 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes: EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
62-53-3	Aniline	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
120-12-7	Anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
100-51-6	Benzyl alcohol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
106-47-8	4-Chloroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
95-57-8	2-Chlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
218-01-9	Chrysene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
132-64-9	Dibenzofuran	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
84-66-2	Diethyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
131-11-3	Dimethyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
117-81-7	Bis(2-ethylhexyl)phthalate	1.44		ug/L	0.606	0.606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH



Sample Information

Client Sample ID: GW-3

York Sample ID: 14L1091-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 1:30 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes: EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
86-73-7	Fluorene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0242	0.0242	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.606	0.606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
67-72-1	Hexachloroethane	ND		ug/L	0.606	0.606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
78-59-1	Isophorone	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
95-48-7	2-Methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
91-20-3	Naphthalene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
100-01-6	4-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
99-09-2	3-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
88-74-4	2-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
98-95-3	Nitrobenzene	ND		ug/L	0.303	0.303	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
100-02-7	4-Nitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
88-75-5	2-Nitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.606	0.606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.303	0.303	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
85-01-8	Phenanthrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
108-95-2	Phenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
129-00-0	Pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:54	KH
110-86-1	Pyridine	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/06/2015 07:42	01/06/2015 14:56	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: 2-Fluorophenol	20.2 %	10-47
4165-62-2	Surrogate: Phenol-d5	17.9 %	10-37
4165-60-0	Surrogate: Nitrobenzene-d5	40.7 %	10-109
321-60-8	Surrogate: 2-Fluorobiphenyl	34.7 %	10-97
118-79-6	Surrogate: 2,4,6-Tribromophenol	63.7 %	10-112
1718-51-0	Surrogate: Terphenyl-d14	50.7 %	10-137



Sample Information

Client Sample ID: GW-3

York Sample ID: 14L1091-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 1:30 pm

12/31/2014

Pesticides, 8081 target list

Log-in Notes:

Sample Notes: EXT-D

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
72-55-9	4,4'-DDE	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
50-29-3	4,4'-DDT	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
309-00-2	Aldrin	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
319-84-6	alpha-BHC	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
319-85-7	beta-BHC	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
57-74-9	Chlordane, total	ND		ug/L	0.0552	0.0552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
5103-74-2	gamma-Chlordane	ND		ug/L	0.0138	0.0138	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
319-86-8	delta-BHC	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
60-57-1	Dieldrin	ND		ug/L	0.00276	0.00276	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
959-98-8	Endosulfan I	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
33213-65-9	Endosulfan II	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
72-20-8	Endrin	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
7421-93-4	Endrin aldehyde	ND		ug/L	0.0138	0.0138	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
53494-70-5	Endrin ketone	ND		ug/L	0.0138	0.0138	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
76-44-8	Heptachlor	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
5103-71-9	alpha-Chlordane	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
72-43-5	Methoxychlor	ND		ug/L	0.00552	0.00552	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
8001-35-2	Toxaphene	ND		ug/L	0.138	0.138	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:43	JW
	Surrogate Recoveries	Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	53.6 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	40.0 %			30-120						



Sample Information

Client Sample ID: GW-3

York Sample ID: 14L1091-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 1:30 pm

12/31/2014

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-D

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0690	0.0690	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:14	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0690	0.0690	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:14	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0690	0.0690	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:14	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0690	0.0690	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:14	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0690	0.0690	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:14	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0690	0.0690	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:14	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0690	0.0690	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:14	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0690	0.0690	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:14	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	68.5 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	40.8 %			30-120						

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-39-3	Barium	0.112		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-70-2	Calcium	126		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7439-95-4	Magnesium	69.5		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7439-96-5	Manganese	0.393		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-02-0	Nickel	0.006		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-09-7	Potassium	7.37		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-23-5	Sodium	201		mg/L	0.100	0.100	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:14	MW



Sample Information

Client Sample ID: GW-3

York Sample ID: 14L1091-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 1:30 pm

12/31/2014

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	2.05		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-39-3	Barium	1.44		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-70-2	Calcium	1370		mg/L	0.500	0.500	10	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-47-3	Chromium	0.007		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-48-4	Cobalt	0.211		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7439-89-6	Iron	2.42		mg/L	0.020	0.020	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7439-92-1	Lead	0.005		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7439-95-4	Magnesium	198		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7439-96-5	Manganese	14.4		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-02-0	Nickel	0.200		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-09-7	Potassium	16.2		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7782-49-2	Selenium	0.012		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-23-5	Sodium	176		mg/L	0.100	0.100	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW
7440-66-6	Zinc	0.039		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:02	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/02/2015 08:55	01/02/2015 13:45	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/06/2015 07:02	01/06/2015 14:35	ALD



Sample Information

Client Sample ID: GW-1

York Sample ID: 14L1091-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 2:30 pm

12/31/2014

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
527-53-7	1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS



Sample Information

Client Sample ID: GW-1

York Sample ID: 14L1091-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 2:30 pm

12/31/2014

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
67-66-3	Chloroform	0.69		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
105-05-5	p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
622-96-8	p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
127-18-4	Tetrachloroethylene	0.41	J	ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
79-01-6	Trichloroethylene	1.3		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	01/05/2015 08:41	01/05/2015 15:32	SS
	Surrogate Recoveries	Result		Acceptance Range							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %		69-130							
460-00-4	Surrogate: p-Bromofluorobenzene	99.2 %		79-122							
2037-26-5	Surrogate: Toluene-d8	97.5 %		81-117							



Sample Information

Client Sample ID: GW-1

York Sample ID: 14L1091-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 2:30 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes: EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
62-53-3	Aniline	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
120-12-7	Anthracene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
100-51-6	Benzyl alcohol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
106-47-8	4-Chloroaniline	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
95-57-8	2-Chlorophenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
218-01-9	Chrysene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
132-64-9	Dibenzofuran	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
84-66-2	Diethyl phthalate	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
131-11-3	Dimethyl phthalate	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
117-81-7	Bis(2-ethylhexyl)phthalate	2.17		ug/L	0.667	0.667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH



Sample Information

Client Sample ID: GW-1

York Sample ID: 14L1091-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 2:30 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes: EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
86-73-7	Fluorene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0267	0.0267	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.667	0.667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
67-72-1	Hexachloroethane	ND		ug/L	0.667	0.667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
78-59-1	Isophorone	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
95-48-7	2-Methylphenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
91-20-3	Naphthalene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
100-01-6	4-Nitroaniline	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
99-09-2	3-Nitroaniline	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
88-74-4	2-Nitroaniline	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
98-95-3	Nitrobenzene	ND		ug/L	0.333	0.333	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
100-02-7	4-Nitrophenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
88-75-5	2-Nitrophenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.667	0.667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.333	0.333	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
85-01-8	Phenanthrene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
108-95-2	Phenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
129-00-0	Pyrene	ND		ug/L	0.0667	0.0667	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:25	KH
110-86-1	Pyridine	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.33	6.67	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:27	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	26.1 %			10-47						
4165-62-2	Surrogate: Phenol-d5	21.6 %			10-37						
4165-60-0	Surrogate: Nitrobenzene-d5	46.2 %			10-109						
321-60-8	Surrogate: 2-Fluorobiphenyl	39.2 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	68.4 %			10-112						
1718-51-0	Surrogate: Terphenyl-d14	50.4 %			10-137						



Sample Information

Client Sample ID: GW-1

York Sample ID: 14L1091-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 2:30 pm

12/31/2014

Pesticides, 8081 target list

Log-in Notes:

Sample Notes: EXT-D

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
72-55-9	4,4'-DDE	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
50-29-3	4,4'-DDT	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
309-00-2	Aldrin	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
319-84-6	alpha-BHC	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
319-85-7	beta-BHC	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
57-74-9	Chlordane, total	ND		ug/L	0.0571	0.0571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
5103-74-2	gamma-Chlordane	ND		ug/L	0.0143	0.0143	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
319-86-8	delta-BHC	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
60-57-1	Dieldrin	ND		ug/L	0.00286	0.00286	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
959-98-8	Endosulfan I	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
33213-65-9	Endosulfan II	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
72-20-8	Endrin	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
7421-93-4	Endrin aldehyde	ND		ug/L	0.0143	0.0143	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
53494-70-5	Endrin ketone	ND		ug/L	0.0143	0.0143	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
76-44-8	Heptachlor	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
5103-71-9	alpha-Chlordane	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
72-43-5	Methoxychlor	ND		ug/L	0.00571	0.00571	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
8001-35-2	Toxaphene	ND		ug/L	0.143	0.143	1	EPA 8081B	01/02/2015 07:07	01/02/2015 15:58	JW
	Surrogate Recoveries	Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	49.0 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	37.8 %			30-120						



Sample Information

Client Sample ID: GW-1

York Sample ID: 14L1091-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 2:30 pm

12/31/2014

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-D

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0714	0.0714	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:33	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0714	0.0714	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:33	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0714	0.0714	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:33	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0714	0.0714	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:33	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0714	0.0714	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:33	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0714	0.0714	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:33	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0714	0.0714	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:33	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0714	0.0714	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:33	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	64.0 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	42.8 %			30-120						

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-39-3	Barium	0.060		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-70-2	Calcium	88.5		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7439-95-4	Magnesium	48.4		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7439-96-5	Manganese	0.143		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-09-7	Potassium	5.42		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-23-5	Sodium	121		mg/L	0.100	0.100	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:33	MW



Sample Information

Client Sample ID: GW-1

York Sample ID: 14L1091-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 2:30 pm

12/31/2014

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	2.54		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-39-3	Barium	1.28		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-70-2	Calcium	1380		mg/L	0.500	0.500	10	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-47-3	Chromium	0.011		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-48-4	Cobalt	0.185		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7439-89-6	Iron	4.75		mg/L	0.020	0.020	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7439-92-1	Lead	0.005		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7439-95-4	Magnesium	197		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7439-96-5	Manganese	10.2		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-02-0	Nickel	0.129		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-09-7	Potassium	13.0		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-23-5	Sodium	138		mg/L	0.100	0.100	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW
7440-66-6	Zinc	0.073		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:07	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/02/2015 08:55	01/02/2015 13:45	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/06/2015 07:02	01/06/2015 14:35	ALD



Sample Information

Client Sample ID: GW-2

York Sample ID: 14L1091-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 3:10 pm

12/31/2014

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
527-53-7	1,2,4,5-Tetramethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
95-49-8	2-Chlorotoluene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
591-78-6	2-Hexanone	3.2	CCV-E	ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
106-43-4	4-Chlorotoluene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
67-64-1	Acetone	ND		ug/L	5.0	10	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
71-43-2	Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
74-97-5	Bromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
75-27-4	Bromodichloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
75-25-2	Bromoform	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
74-83-9	Bromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
75-15-0	Carbon disulfide	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS



Sample Information

Client Sample ID: GW-2

York Sample ID: 14L1091-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 3:10 pm

12/31/2014

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
75-00-3	Chloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
67-66-3	Chloroform	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
74-87-3	Chloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
124-48-1	Dibromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
74-95-3	Dibromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
100-41-4	Ethyl Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
98-82-8	Isopropylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
75-09-2	Methylene chloride	ND		ug/L	5.0	10	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
91-20-3	Naphthalene	ND		ug/L	5.0	10	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
104-51-8	n-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
103-65-1	n-Propylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
95-47-6	o-Xylene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	2.5	5.0	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
105-05-5	p-Diethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
622-96-8	p-Ethyltoluene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
135-98-8	sec-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
100-42-5	Styrene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
127-18-4	Tetrachloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
108-88-3	Toluene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
79-01-6	Trichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
75-01-4	Vinyl Chloride	ND		ug/L	1.0	2.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
1330-20-7	* Xylenes, Total	ND		ug/L	3.0	7.5	5	EPA 8260C	01/05/2015 08:41	01/05/2015 16:04	SS
	Surrogate Recoveries	Result		Acceptance Range							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %		69-130							
460-00-4	Surrogate: p-Bromofluorobenzene	104 %		79-122							
2037-26-5	Surrogate: Toluene-d8	98.7 %		81-117							



Sample Information

Client Sample ID: GW-2

York Sample ID: 14L1091-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 3:10 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes: EXT-D, EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
62-53-3	Aniline	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
120-12-7	Anthracene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
100-51-6	Benzyl alcohol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
106-47-8	4-Chloroaniline	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
95-57-8	2-Chlorophenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
218-01-9	Chrysene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
132-64-9	Dibenzofuran	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
84-66-2	Diethyl phthalate	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
131-11-3	Dimethyl phthalate	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
117-81-7	Bis(2-ethylhexyl)phthalate	1.10		ug/L	0.952	0.952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH



Sample Information

Client Sample ID: GW-2

York Sample ID: 14L1091-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 3:10 pm

12/31/2014

Semi-Volatiles, 8270 Target List

Log-in Notes:

Sample Notes: EXT-D, EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
86-73-7	Fluorene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0381	0.0381	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.952	0.952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
67-72-1	Hexachloroethane	ND		ug/L	0.952	0.952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
78-59-1	Isophorone	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
95-48-7	2-Methylphenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
91-20-3	Naphthalene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
100-01-6	4-Nitroaniline	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
99-09-2	3-Nitroaniline	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
88-74-4	2-Nitroaniline	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
98-95-3	Nitrobenzene	ND		ug/L	0.476	0.476	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
100-02-7	4-Nitrophenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
88-75-5	2-Nitrophenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.952	0.952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.476	0.476	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
85-01-8	Phenanthrene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
108-95-2	Phenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:56	KH
129-00-0	Pyrene	ND		ug/L	0.0952	0.0952	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
110-86-1	Pyridine	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	4.76	9.52	1	EPA 8270D	01/06/2015 07:42	01/06/2015 15:58	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: 2-Fluorophenol	18.6 %	10-47
4165-62-2	Surrogate: Phenol-d5	20.2 %	10-37
4165-60-0	Surrogate: Nitrobenzene-d5	35.9 %	10-109
321-60-8	Surrogate: 2-Fluorobiphenyl	27.5 %	10-97
118-79-6	Surrogate: 2,4,6-Tribromophenol	52.6 %	10-112
1718-51-0	Surrogate: Terphenyl-d14	39.6 %	10-137



Sample Information

Client Sample ID: GW-2

York Sample ID: 14L1091-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 3:10 pm

12/31/2014

Pesticides, 8081 target list

Log-in Notes:

Sample Notes: EXT-D

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
72-55-9	4,4'-DDE	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
50-29-3	4,4'-DDT	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
309-00-2	Aldrin	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
319-84-6	alpha-BHC	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
319-85-7	beta-BHC	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
57-74-9	Chlordane, total	ND		ug/L	0.0615	0.0615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
5103-74-2	gamma-Chlordane	ND		ug/L	0.0154	0.0154	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
319-86-8	delta-BHC	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
60-57-1	Dieldrin	ND		ug/L	0.00308	0.00308	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
959-98-8	Endosulfan I	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
33213-65-9	Endosulfan II	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
72-20-8	Endrin	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
7421-93-4	Endrin aldehyde	ND		ug/L	0.0154	0.0154	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
53494-70-5	Endrin ketone	ND		ug/L	0.0154	0.0154	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
76-44-8	Heptachlor	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
5103-71-9	alpha-Chlordane	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
72-43-5	Methoxychlor	ND		ug/L	0.00615	0.00615	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
8001-35-2	Toxaphene	ND		ug/L	0.154	0.154	1	EPA 8081B	01/02/2015 07:07	01/02/2015 16:13	JW
	Surrogate Recoveries	Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	53.4 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	38.5 %			30-120						



Sample Information

Client Sample ID: GW-2

York Sample ID: 14L1091-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 3:10 pm

12/31/2014

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes: EXT-D

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0769	0.0769	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:53	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0769	0.0769	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:53	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0769	0.0769	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:53	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0769	0.0769	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:53	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0769	0.0769	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:53	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0769	0.0769	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:53	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0769	0.0769	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:53	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0769	0.0769	1	EPA 8082A	01/02/2015 07:07	01/05/2015 11:53	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	66.5 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	51.2 %			30-120						

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-39-3	Barium	0.034		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-70-2	Calcium	111		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7439-89-6	Iron	ND		mg/L	0.020	0.020	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7439-95-4	Magnesium	27.8		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7439-96-5	Manganese	0.071		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-09-7	Potassium	3.05		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-23-5	Sodium	49.8		mg/L	0.100	0.100	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:20	01/05/2015 20:51	MW



Sample Information

Client Sample ID: GW-2

York Sample ID: 14L1091-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1091

1415450

Water

December 30, 2014 3:10 pm

12/31/2014

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	60.3		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-38-2	Arsenic	0.012		mg/L	0.004	0.004	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-39-3	Barium	3.03		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-41-7	Beryllium	0.014		mg/L	0.001	0.001	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-43-9	Cadmium	0.008		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-70-2	Calcium	767		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-47-3	Chromium	0.037		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-48-4	Cobalt	0.176		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-50-8	Copper	0.203		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7439-89-6	Iron	4.08		mg/L	0.020	0.020	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7439-92-1	Lead	0.013		mg/L	0.003	0.003	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7439-95-4	Magnesium	195		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7439-96-5	Manganese	14.2		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-02-0	Nickel	0.200		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-09-7	Potassium	14.7		mg/L	0.050	0.050	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-23-5	Sodium	65.2		mg/L	0.100	0.100	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-62-2	Vanadium	0.063		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW
7440-66-6	Zinc	0.528		mg/L	0.010	0.010	1	EPA 6010C	01/05/2015 14:23	01/05/2015 22:12	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/02/2015 08:55	01/02/2015 13:45	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/06/2015 07:02	01/06/2015 14:35	ALD



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
14L1091-01	S-1 (0-2)	40mL Vial with Stir Bar-Cool 4° C
14L1091-02	S-1 (12-14)	40mL Vial with Stir Bar-Cool 4° C
14L1091-03	S-4 (0-2)	40mL Vial with Stir Bar-Cool 4° C
14L1091-04	S-4 (12-14)	40mL Vial with Stir Bar-Cool 4° C
14L1091-05	S-5 (0-2)	40mL Vial with Stir Bar-Cool 4° C
14L1091-06	S-5 (12-14)	40mL Vial with Stir Bar-Cool 4° C
14L1091-07	S-3 (0-2)	40mL Vial with Stir Bar-Cool 4° C
14L1091-08	S-3 (2-4)	40mL Vial with Stir Bar-Cool 4° C
14L1091-09	S-2 (0-2)	40mL Vial with Stir Bar-Cool 4° C
14L1091-10	S-2 (2-4)	40mL Vial with Stir Bar-Cool 4° C
14L1091-11	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14L1091-12	GW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14L1091-13	GW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14L1091-14	GW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-MISpk	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The SRM was within acceptance limits, therefore data are acceptable.
M-BCCB	Analyte in CCB > MDL. Sample conc. >10 X blank conc.
M-ACCB	Analyte in CCB. Run is bracketed by acceptable CCBs.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
EXT-D	The sample submitted contained sediment. The aqueous portion was decanted off, the volume measured and used for the extraction. The sediment was not included in the extraction.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Cal-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20% AND correlation coefficient <0.990 for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.



Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

Field Chain-of-Custody Record

York Project No. 14L1641

YORK ANALYTICAL LABORATORIES
122 RESEARCH DR.
STRAFFORD, CT 06615
203-325-3737
FAX 1203-357-0766

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

YOUR Information	Report To: Company: <u>Some</u> Address: <u>110 Wall Street - R2</u> Phone No: <u>631-791-2941</u> City: <u>Soite 202</u> State: <u>CT</u> Zip: <u>06611</u> Contact Person: <u>Chris Mox</u> E-Mail Address: <u>Chris.Mox@some.com</u>	Invoice To: Company: <u>Some</u> Address: <u>110 Wall Street - R2</u> Phone No: <u>631-791-2941</u> City: <u>Soite 202</u> State: <u>CT</u> Zip: <u>06611</u> Contact Person: <u>Chris Mox</u> E-Mail Address: <u>Chris.Mox@some.com</u>	YOUR Project ID <u>1415450</u>	Turn-Around Time RUSH - Same Day RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard (5-7 Days)	Report Type Summary Report <input checked="" type="checkbox"/> Summary w. QA <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CT RCP DOA/DUE Pkg <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NJ DEP Red. Delv <input type="checkbox"/> <u>Electronic Data Deliverables (EDD)</u>
-------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Matrix Codes	Volatiles	Metals	Trace Metals	Other	Full Lists	Visc. Org.
<input type="checkbox"/> S <input type="checkbox"/> Other - specify on tag <input type="checkbox"/> W - water <input type="checkbox"/> GW - groundwater <input type="checkbox"/> DW - drinking water <input type="checkbox"/> Air - ambient air <input type="checkbox"/> MSW - solid waste	<input type="checkbox"/> SO ₂ <input type="checkbox"/> CO <input type="checkbox"/> NO _x <input type="checkbox"/> H ₂ S <input type="checkbox"/> NH ₃ <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> PCBs <input type="checkbox"/> PAHs <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/> Fungicides <input type="checkbox"/> Pharmaceuticals <input type="checkbox"/> Other	<input type="checkbox"/> As <input type="checkbox"/> Cd <input type="checkbox"/> Cr <input type="checkbox"/> Cu <input type="checkbox"/> Fe <input type="checkbox"/> Hg <input type="checkbox"/> Mn <input type="checkbox"/> Ni <input type="checkbox"/> Pb <input type="checkbox"/> Se <input type="checkbox"/> Zn <input type="checkbox"/> Ag <input type="checkbox"/> Ba <input type="checkbox"/> Bi <input type="checkbox"/> Br <input type="checkbox"/> Ca <input type="checkbox"/> Co <input type="checkbox"/> Cs <input type="checkbox"/> K <input type="checkbox"/> Li <input type="checkbox"/> Mg <input type="checkbox"/> Na <input type="checkbox"/> Rb <input type="checkbox"/> Sr <input type="checkbox"/> Tl <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> Y <input type="checkbox"/> Zr <input type="checkbox"/> Other	<input type="checkbox"/> Arsenic <input type="checkbox"/> Barium <input type="checkbox"/> Bismuth <input type="checkbox"/> Boron <input type="checkbox"/> Cadmium <input type="checkbox"/> Calcium <input type="checkbox"/> Cobalt <input type="checkbox"/> Chromium <input type="checkbox"/> Copper <input type="checkbox"/> Fluorine <input type="checkbox"/> Gallium <input type="checkbox"/> Germanium <input type="checkbox"/> Iodine <input type="checkbox"/> Iron <input type="checkbox"/> Lead <input type="checkbox"/> Lithium <input type="checkbox"/> Magnesium <input type="checkbox"/> Manganese <input type="checkbox"/> Mercury <input type="checkbox"/> Molybdenum <input type="checkbox"/> Nickel <input type="checkbox"/> Nitrogen <input type="checkbox"/> Potassium <input type="checkbox"/> Selenium <input type="checkbox"/> Silver <input type="checkbox"/> Sodium <input type="checkbox"/> Strontium <input type="checkbox"/> Tellurium <input type="checkbox"/> Thallium <input type="checkbox"/> Vanadium <input type="checkbox"/> Zinc <input type="checkbox"/> Zirconium <input type="checkbox"/> Other	<input type="checkbox"/> PCBs <input type="checkbox"/> PAHs <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/> Fungicides <input type="checkbox"/> Pharmaceuticals <input type="checkbox"/> Other	<input type="checkbox"/> PCBs <input type="checkbox"/> PAHs <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/> Fungicides <input type="checkbox"/> Pharmaceuticals <input type="checkbox"/> Other	<input type="checkbox"/> PCBs <input type="checkbox"/> PAHs <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides <input type="checkbox"/> Fungicides <input type="checkbox"/> Pharmaceuticals <input type="checkbox"/> Other

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
Tip Blank	12/30/14	-	VOC (8200), SVOC (8220), Pest/PAH (8250), Metals (8260), PCBs (8270), PAHs (8280), Pesticides (8290), Herbicides (8300), Fungicides (8310), Pharmaceuticals (8320), Other (8330)	VOL ONLY for Trip Blank
GW-3	1330	GW	TOTAL & DISC'd	2307-1015, 2307-1016
GW-1	1430	GW	TOTAL & DISC'd	2307-1015, 2307-1016
GW-2	1510	GW	TOTAL & DISC'd	2307-1015, 2307-1016

Comments
 NYCOEA E DRO SITE
 * GW TOTAL & DISC'd
 TAL METALS. 12/15/14

Preservation
 Check above applicable
 SPECIMENS
 TIGHTLY SEALED
 SUBSTRATE

Temperature on Receipt
 12/30/14

Samples Relinquished By Chris Mox **Date/Time** 12-31-14 12:00

Samples Received By K. Scalet **Date/Time** 1/31/15

Samples Relinquished By Chris Mox **Date/Time** 12/31/14

Samples Received in LAB by Chris Mox **Date/Time** 12/31/14



Technical Report

prepared for:

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Nick Recchia

Report Date: 01/08/2015
Client Project ID: 1415450
York Project (SDG) No.: 14L1092

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 01/08/2015
Client Project ID: 1415450
York Project (SDG) No.: 14L1092

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Nick Recchia

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 31, 2014 and listed below. The project was identified as your project: **1415450**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
14L1092-01	SV-1	Soil Vapor	12/30/2014	12/31/2014
14L1092-02	SV-2	Soil Vapor	12/30/2014	12/31/2014
14L1092-03	SV-3	Soil Vapor	12/30/2014	12/31/2014

General Notes for York Project (SDG) No.: 14L1092

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 01/08/2015





Sample Information

Client Sample ID: SV-1

York Sample ID: 14L1092-01

York Project (SDG) No.
14L1092

Client Project ID
1415450

Matrix
Soil Vapor

Collection Date/Time
December 30, 2014 3:00 pm

Date Received
12/31/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m ³	0.064	0.064	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	0.35	0.35	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
79-01-6	Trichloroethylene	1.7		ug/m ³	0.13	0.13	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.45	0.45	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.40	0.40	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
108-88-3	Toluene	17		ug/m ³	0.38	0.38	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.29	0.29	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
127-18-4	Tetrachloroethylene	13		ug/m ³	0.17	0.17	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
100-42-5	Styrene	ND		ug/m ³	0.43	0.43	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
115-07-1	* Propylene	ND		ug/m ³	0.17	0.17	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
622-96-8	* p-Ethyltoluene	3.7		ug/m ³	0.49	0.49	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
179601-23-1	p- & m- Xylenes	8.6		ug/m ³	0.87	0.87	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
95-47-6	o-Xylene	3.4		ug/m ³	0.43	0.43	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
110-54-3	n-Hexane	22		ug/m ³	0.35	0.35	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
142-82-5	n-Heptane	6.9		ug/m ³	0.41	0.41	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
75-09-2	Methylene chloride	80		ug/m ³	0.69	0.69	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.36	0.36	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.41	0.41	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
67-63-0	Isopropanol	3.1		ug/m ³	0.49	0.49	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.1	1.1	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
100-41-4	Ethyl Benzene	2.3		ug/m ³	0.43	0.43	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	0.72	0.72	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
110-82-7	Cyclohexane	7.3		ug/m ³	0.34	0.34	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.45	0.45	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
156-59-2	cis-1,2-Dichloroethylene	3.1		ug/m ³	0.40	0.40	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
74-87-3	Chloromethane	0.45		ug/m ³	0.21	0.21	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
67-66-3	Chloroform	0.49		ug/m ³	0.49	0.49	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
75-00-3	Chloroethane	ND		ug/m ³	0.26	0.26	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
56-23-5	Carbon tetrachloride	0.31		ug/m ³	0.16	0.16	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
75-15-0	Carbon disulfide	0.75		ug/m ³	0.31	0.31	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
74-83-9	Bromomethane	ND		ug/m ³	0.39	0.39	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
75-25-2	Bromoform	ND		ug/m ³	1.0	1.0	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	0.62	0.62	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	0.52	0.52	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
71-43-2	Benzene	6.9		ug/m ³	0.32	0.32	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
67-64-1	Acetone	43		ug/m ³	0.24	0.24	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	0.82	0.82	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD
78-93-3	2-Butanone	3.4		ug/m ³	0.29	0.29	1	EPA TO-15	01/07/2015 08:37	01/07/2015 13:17	ALD



Sample Information

Client Sample ID: SV-1

York Sample ID: 14L1092-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1092

1415450

Soil Vapor

December 30, 2014 3:00 pm

12/31/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for various organic compounds and a Surrogate Recoveries section.

Sample Information

Client Sample ID: SV-2

York Sample ID: 14L1092-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1092

1415450

Soil Vapor

December 30, 2014 3:00 pm

12/31/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Vinyl Chloride and Vinyl acetate.



Sample Information

Client Sample ID: SV-2

York Sample ID: 14L1092-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1092

1415450

Soil Vapor

December 30, 2014 3:00 pm

12/31/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
					LOD/MDL	LOQ					
79-01-6	Trichloroethylene	0.91		ug/m ³	0.13	0.13	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.45	0.45	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.40	0.40	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
108-88-3	Toluene	44		ug/m ³	0.38	0.38	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
109-99-9	* Tetrahydrofuran	6.2		ug/m ³	0.29	0.29	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
127-18-4	Tetrachloroethylene	25		ug/m ³	0.17	0.17	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
100-42-5	Styrene	ND		ug/m ³	0.43	0.43	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
115-07-1	* Propylene	ND		ug/m ³	0.17	0.17	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
622-96-8	* p-Ethyltoluene	13		ug/m ³	0.49	0.49	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
179601-23-1	p- & m- Xylenes	45		ug/m ³	0.87	0.87	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
95-47-6	o-Xylene	18		ug/m ³	0.43	0.43	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
110-54-3	n-Hexane	7.0		ug/m ³	0.35	0.35	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
142-82-5	n-Heptane	6.1		ug/m ³	0.41	0.41	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
75-09-2	Methylene chloride	3.6		ug/m ³	0.69	0.69	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.36	0.36	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
108-10-1	4-Methyl-2-pentanone	16		ug/m ³	0.41	0.41	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
67-63-0	Isopropanol	2.2		ug/m ³	0.49	0.49	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.1	1.1	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
100-41-4	Ethyl Benzene	12		ug/m ³	0.43	0.43	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	0.72	0.72	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
110-82-7	Cyclohexane	3.0		ug/m ³	0.34	0.34	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.45	0.45	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.40	0.40	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
74-87-3	Chloromethane	ND		ug/m ³	0.21	0.21	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
67-66-3	Chloroform	0.73		ug/m ³	0.49	0.49	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
75-00-3	Chloroethane	ND		ug/m ³	0.26	0.26	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.16	0.16	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
75-15-0	Carbon disulfide	76		ug/m ³	0.31	0.31	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
74-83-9	Bromomethane	ND		ug/m ³	0.39	0.39	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
75-25-2	Bromoform	ND		ug/m ³	1.0	1.0	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	0.62	0.62	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	0.52	0.52	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
71-43-2	Benzene	4.5		ug/m ³	0.32	0.32	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
67-64-1	Acetone	40		ug/m ³	0.24	0.24	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	0.82	0.82	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
78-93-3	2-Butanone	8.3		ug/m ³	0.29	0.29	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	0.36	0.36	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.60	0.60	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.60	0.60	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD



Sample Information

Client Sample ID: SV-2

York Sample ID: 14L1092-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1092

1415450

Soil Vapor

December 30, 2014 3:00 pm

12/31/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-99-0	1,3-Butadiene	4.7		ug/m ³	0.43	0.43	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
108-67-8	1,3,5-Trimethylbenzene	4.1		ug/m ³	0.49	0.49	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.70	0.70	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.46	0.46	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.40	0.40	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.60	0.60	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
95-63-6	1,2,4-Trimethylbenzene	14		ug/m ³	0.49	0.49	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.74	0.74	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.40	0.40	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.40	0.40	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	1.9		ug/m ³	0.56	0.56	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.55	0.55	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.77	0.77	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.69	0.69	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.55	0.55	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
75-71-8	Dichlorodifluoromethane	2.0		ug/m ³	0.49	0.49	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.77	0.77	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	0.80	0.80	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.41	0.41	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	0.46	0.46	1	EPA TO-15	01/07/2015 08:37	01/07/2015 15:22	ALD
	Surrogate Recoveries	Result			Acceptance Range						
460-00-4	Surrogate: p-Bromofluorobenzene	95.2 %			72-118						

Sample Information

Client Sample ID: SV-3

York Sample ID: 14L1092-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1092

1415450

Soil Vapor

December 30, 2014 3:00 pm

12/31/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m ³	0.48	0.48	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	2.6	2.6	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
79-01-6	Trichloroethylene	3.2		ug/m ³	1.0	1.0	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	3.4	3.4	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	3.0	3.0	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD



Sample Information

Client Sample ID: SV-3

York Sample ID: 14L1092-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1092

1415450

Soil Vapor

December 30, 2014 3:00 pm

12/31/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
					LOD/MDL	LOQ					
108-88-3	Toluene	11		ug/m ³	2.8	2.8	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	2.2	2.2	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
127-18-4	Tetrachloroethylene	35		ug/m ³	1.3	1.3	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
100-42-5	Styrene	ND		ug/m ³	3.2	3.2	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
115-07-1	* Propylene	ND		ug/m ³	1.3	1.3	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
622-96-8	* p-Ethyltoluene	3.7		ug/m ³	3.7	3.7	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
179601-23-1	p- & m- Xylenes	20		ug/m ³	6.5	6.5	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
95-47-6	o-Xylene	6.2		ug/m ³	3.2	3.2	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
110-54-3	n-Hexane	3.9		ug/m ³	2.6	2.6	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
142-82-5	n-Heptane	4.6		ug/m ³	3.1	3.1	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
75-09-2	Methylene chloride	25		ug/m ³	5.2	5.2	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	2.7	2.7	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	3.1	3.1	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
67-63-0	Isopropanol	ND		ug/m ³	3.7	3.7	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	8.0	8.0	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
100-41-4	Ethyl Benzene	6.5		ug/m ³	3.2	3.2	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	5.4	5.4	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
110-82-7	Cyclohexane	15		ug/m ³	2.6	2.6	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	3.4	3.4	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	3.0	3.0	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
74-87-3	Chloromethane	ND		ug/m ³	1.5	1.5	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
67-66-3	Chloroform	ND		ug/m ³	3.6	3.6	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
75-00-3	Chloroethane	ND		ug/m ³	2.0	2.0	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	1.2	1.2	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
75-15-0	Carbon disulfide	40		ug/m ³	2.3	2.3	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
74-83-9	Bromomethane	ND		ug/m ³	2.9	2.9	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
75-25-2	Bromoform	ND		ug/m ³	7.7	7.7	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	4.6	4.6	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	3.9	3.9	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
71-43-2	Benzene	3.1		ug/m ³	2.4	2.4	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
67-64-1	Acetone	300		ug/m ³	1.8	1.8	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	6.1	6.1	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
78-93-3	2-Butanone	4.4		ug/m ³	2.2	2.2	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	2.7	2.7	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	4.5	4.5	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	4.5	4.5	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	3.2	3.2	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	3.7	3.7	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	5.2	5.2	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD



Sample Information

Client Sample ID: SV-3

York Sample ID: 14L1092-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14L1092

1415450

Soil Vapor

December 30, 2014 3:00 pm

12/31/2014

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
					LOD/MDL	LOQ					
78-87-5	1,2-Dichloropropane	ND		ug/m ³	3.5	3.5	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	3.0	3.0	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	4.5	4.5	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
95-63-6	1,2,4-Trimethylbenzene	4.8		ug/m ³	3.7	3.7	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	5.5	5.5	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	3.0	3.0	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	3.0	3.0	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	4.2	4.2	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	4.1	4.1	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	5.7	5.7	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	5.1	5.1	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	4.1	4.1	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	3.7	3.7	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	5.7	5.7	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	6.0	6.0	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	3.1	3.1	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	3.4	3.4	7.468	EPA TO-15	01/07/2015 08:37	01/07/2015 16:13	ALD
	Surrogate Recoveries	Result			Acceptance Range						
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	93.0 %			72-118						



Notes and Definitions

QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.
