# **HIGHLAND PLAZA**

## **ERIE COUNTY, NEW YORK**

# **Final Engineering Report**

**NYSDEC Site Number: C915293** 

## **Prepared for:**

Highland Plaza
215 Highland Parkway
Tonawanda, New York

## Prepared by:

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### **CERTIFICATIONS**

I, Andrew Terragnoli, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Interim Remedial Measures Work Plan and Work Plan Addendum were implemented and that all construction activities were completed in substantial conformance with these Department-approved work plans and Department approved measures.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Interim Remedial Measures Work Plan, Work Plan Addendum and Department approved measures and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Andrew Terragnoli, of Studio T3

Engineering, PLLC, am certifying as Owner's Designated Site Representative and I have been authorized and designated by the site owner to sign this certification for the site.

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NYS Professional Engineer # Date Signature

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# LIST OF ACRONYMS

Acronym	Definition
BCA	Brownfield Cleanup Agreement
CAMP	Community Air Monitoring Plan
DUSR	Data Usability Summary Report
EC	Engineering Control
HASP	Health and Safety Plan
IRM	Interim Remedial Measure
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCBs	Poly Chlorinated Bi-phenyls
PVC	Poly Vinyl Chloride
RAOs	Remedial Action Objectives
RCRA	Resource Conservation and Recovery Act
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SVOCs	Semi-Volatile Organic Compounds
SSDS	Sub-Slab Depressurization System
TCLP	Toxic Characteristic Leaching Potential
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

# FINAL ENGINEERING REPORT

#### 1.0 BACKGROUND AND SITE DESCRIPTION

Highland Plaza entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in April, 2015 to investigate and remediate a 0.69-acre property located in the Town of Tonawanda, New York. The property was remediated to commercial use, and will be used for commercial use only.

The site is located in the County of Erie, New York and is identified as Lot #33, Township 12 Range 6 of the Holland land Company's Survey and being Sublots #35 to 46 inclusive on the Tonawanda, Erie County Tax Map (Figure 1). The site is situated on an approximately 0.69-acre area bounded by Highland Parkway to the north, an alley way followed by residential properties to the south, a parking lot and credit union to the east, and a gasoline station and Colvin Boulevard to the west (see Figures 1, 2 and 3). The boundaries of the site are fully described in Appendix A: Survey Map, Metes and Bounds. The site boundaries in Appendix A are the same as the BCA boundaries.

An electronic copy of this FER with all supporting documentation is included as Appendix B.

#### 2.0 SUMMARY OF SITE REMEDY

#### 2.1 REMEDIAL ACTION OBJECTIVES

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) were identified for this site.

#### 2.1.1 Groundwater RAOs

#### **RAOs for Public Health Protection**

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

#### **RAOs** for Environmental Protection

- Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of ground or surface water contamination.

#### 2.1.2 Soil RAOs

#### **RAOs for Public Health Protection**

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure from, contaminants volatilizing from contaminants in soil.

#### **RAOs** for Environmental Protection

 Prevent migration of contaminants that would result in groundwater or surface water contamination.

#### 2.1.3 Soil Vapor RAOs

**RAOs for Public Health Protection** 

• Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.

#### 2.2 DESCRIPTION OF SELECTED REMEDY

The site was remediated in accordance with the remedy selected by the NYSDEC in the Decision Document dated December, 2017. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

- 1. Maintenance of the existing cover system consisting of the asphalt parking lot covering approximately 50% of the site; the building slab on grade concrete floor and foundation covering approximately 47% of the site; and a clean soil cover behind the building covering approximately 3% of the site to prevent human exposure to remaining contaminated soil/fill remaining at the site (Figures 1, 2, 3, 4 and 5);
- 2. Two sub-slab depressurization systems (SSDSs) located in Building #1 (235 to 237 Highland Parkway); and Building #2 (231 Highland Parkway (Figure 6));
- 3. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site.
- 4. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting;
- 5. Periodic certification of the institutional and engineering controls listed above.

# 3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

The remedy for this site was performed as two interim remedial measures. The information and certifications made in the Interim Remedial Measures and Addendum Final Construction Reports as well as the analytical results for soil re-use were relied upon to prepare this report and certify that the remediation requirements for the site have been met.

#### 3.1 INTERIM REMEDIAL MEASURES

# 3.1.1 Interim Remedial Measure – Installation of Sub-Slab Depressurization System at 235-237 Highland Parkway

Highland Plaza received approval in February of 2016 from the NYSDEC and NYSDOH to construct and operate an interim remedial measure (IRM) consisting of a Sub-Slab Depressurization System (SSDS). The implementation of the IRM started in March of 2016 and was completed the third week of April, 2016. The SSDS was constructed in the easternmost building of the strip plaza at 235 and 237 Highland Parkway (Building #1) in the tenant space formerly occupied by the dry cleaner (Figure 6). The SSDS is designed to depressurize the entire concrete slab of the easternmost plaza building where the former dry cleaner was located. Detailed drawings and specifications for the SSDS can be found in the Interim Remedial Measures Construction Completion Report (Appendix C). The IRM consisted of the following work elements:

- Removal and off-site disposal of the concrete floor where it was covered with a wooden lattice (approximately 80% of the tenant space);
- Placement of a crushed stone substrate in the area where the concrete was removed;
- Placement of four perforated horizontal PVC pipe vapor collection runs within the crushed stone for the SSDS that connected to solid vertical PVC piping to three blower units mounted on the roof of the building;

- Placement of a plastic membrane over the crushed stone substrate and pipe runs;
   and
- Placement of new concrete in the area of the tenant spaces where the old concrete was removed.

Once the wooden lattice floor covering 80% of the concrete floor was removed and disposed of off-site, the condition and integrity of the concrete floor in this area was observed to be uneven with multiple cracks, and not suitable for resurfacing. As a result, Highland Plaza requested and received approval from the NYSDEC to replace this part of the concrete floor in the 235 – 237 Highland Parkway tenant spaces (Building #1).

Approximately 32 feet by 47 feet of existing concrete floor was left in place in the easternmost part of this tenant space (237 Highland Parkway). In order to install the SSDS in this area, the existing concrete floor was saw-cut. The soils were excavated out of the saw-cut area to a depth of approximately 18 inches. Four inch perforated PVC vapor collection pipe was placed in the trench and covered with crushed stone in the saw cut and associated excavation. The perforated pipe was then attached to the solid vertical PVC pipe to connect to the roof top mounted blower. The sub-slab vapor collection points for this area are shown on Figure 6.

The SSDS became operational the last week of April, 2016. The three fans were installed one at a time, tested and put into operation. This process took approximately one week to complete. The SSDS has been in continuous operation since that time.

The SSDS was physically and chemically tested for effectiveness in February and March of 2017 and was confirmed to be performing as designed (Appendix C).

Routine maintenance and inspection of the SSDS was completed on December 20, 2017 (Appendix H) and will occur every 12 to 18 months thereafter.

## 3.1.2 Interim Remedial Measure - Installation of Sub-Slab Depressurization System at 231 Highland Parkway

A second SSDS was installed in the tenant space at 231 Highland Parkway in October, 2017 consisting of one vapor collection point through the concrete floor

centrally located within the tenant space, with a vertical pipe run to a roof top blower.

The SSDS is designed to depressurize the tenant space located at 231 Highland Parkway, which is approximately 30 feet wide (east-west) and approximately 50 feet deep (north-south), which is shown on Figure 7. This extraction point (EP) was designated EP-5 to coordinate with extraction point designations for the SSDS located immediately east in the former dry cleaner tenant space (Building #1).

To the extent practicable, EP-5 was centrally located within the tenant space approximately mid-point east-west and midpoint north-south. Extraction point EP-5 is located approximately 9.5 feet east of the west wall of the tenant space; and approximately 21 feet south of the north wall of the tenant space (Figure 6). EP-5 was excavated approximately 12 to 16 inches below the concrete floor slab and a short piece of 4.0 inch diameter perforated schedule 40 PVC pipe was be inserted through the concrete slab to a depth of approximately 12 inches below the concrete floor. This section of perforated pipe was wrapped in a breathable covering to prevent crushed rock or other debris from entering into the perforated PVC pipe. The space around the 4.0 inch diameter perforated PVC pipe was backfilled with crushed stone.

Solid 4.0 inch schedule 40 PVC piping was glued to the 4.0 inch diameter perforated PVC pipe that extends below the concrete floor slab. The solid 4.0 inch PVC pipe runs vertically approximately 12 feet from the concrete floor through the drop ceiling and up through the roof to a roof top mounted blower (fan), designated as Blower #5. A vent pipe was attached that is at least 12 inches above the highest eave of the building and in accordance with any additional requirements in NYSDOH guidance titled, "Guidance for Evaluating Soil Vapor in the State of New York (NYSDOH 2006 with Updates) (Figure 8).

This blower is designated blower #5 (BL-5) to coordinate with the blower designations associated with the existing SSDS in operation at the former dry cleaner space located immediately to the east in the strip plaza. A Tjernlund R5HF (R-Series

Radon Mitigation Fans) is in place for vapor extraction. The fan is mounted on the roof vertically above the extraction point (Figure 8).

The Tjernlund R5HF is a moderate to high flow blower used for commercial areas (up to 2500 square feet). It has a maximum flow rate of 353 cubic feet per minute. The Tjernlund R5HF blower specifications are attached to this work plan in Appendix C.

The SSDS will remain in continuous operation until the NYSDEC/NYSDOH collectively determines if/when the mitigation system will be turned off.

A warning device was installed as part of the SSDS to signal when the system is not operational. The SSDS is equipped with a test port in the riser pipe (EP-5). The SSDS Failure Indicator is placed over the test port opening and attached by a downward hinge to signal if the system is running. When the system is running, the suction created from the system holds the failure indicator (painted black) in place. During a system failure or a decrease in suction, the failure indicator falls away from the test port opening exposing the back part of the indicator (painted yellow) and a significant "hissing noise" occurs which will be audible throughout the tenant space.

Verification pressure field extension testing was completed November 2, 2017. The testing locations are shown on Figure 7 and the results of the pressure testing are attached as Table 1. After review of this information, NYSDOH requested completion of additional pressure testing in the northeast corner of the tenant space Additional pressure testing was completed on December 5, 2017and consisted of re-testing at test point TP-G to correlate the re-test information to the data collected on November 2, 1017, and testing at a new location (test point TP-H) approximately 18 inches south of test point TP-D (Figure 7, Table 1). The results indicate that the SSDS as installed at 231 Highland Parkway is depressurizing the entire tenant space.

Routine maintenance will be completed within 18 months after the system becomes operational and will occur every 12 to 18 months thereafter.

#### 4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Interim Remedial Measures Work Plan, Work Plan Addendum and approval letters for Highland Plaza as follows:

- Interim Remedial Measures Work Plan for construction of the SSDS at 235 to 237 Highland Parkway dated January, 2016; and
- Interim Remedial Measures Work Plan Addendum for construction of the SSDS at 231 Highland Parkway dated August, 2017.

In addition, Highland Plaza received email approval (March, 2016) from NYSDEC for re-use of clean soil that was excavated during the construction of the SSDS in Building #1 and during repairs and re-routing of sewer and water utility lines located directly behind the building. Soil was placed over the approximately 2.95 feet wide soil strip along the back of the building. Soil cover thickness is variable from approximately one foot to 18 inches immediately adjacent to the building, to approximately 12 inches in thickness at the property boundary (Figures 4 and 5). Additional details covering soil-reuse is provided in Section 4.3.2

The remedial actions are described in detail in Section 3.1 of this report. All deviations from these approved remedial activities are noted below.

#### Interim Remedial Measures Work Plan

There were two deviations from the approved Interim Remedial Measures Work Plan. First, the approved Interim Remedial Measures Work Plan did not call out removal and replacement of the concrete floor in Building #1; however, approximately 80 % of the concrete floor in Building #1 was removed and replaced. Once the wooden lattice floor covering 80% of the concrete floor was removed, the condition and integrity of the concrete floor in this area was observed to be uneven with multiple cracks, and not suitable for resurfacing. As a result, Highland Plaza requested and received approval from the NYSDEC to replace this part of the concrete floor in the 235 – 237 Highland Parkway tenant spaces (Building #1).

Secondly, the SSDS in Building #1 was originally designed with the three remediation blowers/fans mounted on the back side of the building. Approval was sought and received from NYSDEC to mount the blowers on the roof of Building #1 due to the positioning of support beams for the building roof.

Interim Remedial Measures Work Plan Addendum

There were no deviations from the approved Interim Remedial Measures Work Plan Addendum

#### 4.1 GOVERNING DOCUMENTS

#### **4.1.1** Site Specific Health & Safety Plan (HASP)

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site.

#### 4.2 REMEDIAL PROGRAM ELEMENTS

#### **4.2.1** Contractors and Consultants

Environmental consulting services were provided by Environmental & Geologic Management Services, LLC.

Engineering oversight was provided by Studio T3 Engineering.

Analytical testing services were provided by Paradigm Environmental for soil and concrete testing; Centek Laboratories provided analytical services for air sampling.

Pagano Excavating removed the old concrete floor from Building #1 and provided transportation services to the concrete recycler. Approximately 122 tons of concrete were removed.

Concrete generated from removal of the floor in Building #1 was recycled by Swift River Recycling.

Sub-grade crushed stone for placement of the new concrete floor was provided by Buffalo Crushed Stone.

Concrete for the replacement floor in Building #1 came from United Concrete (56 yards).

The replacement concrete floor for Building #1 was constructed by Highland Plaza maintenance personnel.

Construction of both sub-slab depressurization systems (SSDSs) and placement of the soil cap in the narrow strip of soil behind the building was completed by Highland Plaza maintenance personnel.

#### **4.2.2 Site Preparation**

Documentation of agency approvals required by the Interim Remedial Measures Work Plan, Work Plan Addendum and placement of the soil cover are included in Appendix D.

#### 4.3 CONTAMINATED MATERIALS REMOVAL

A list of the soil cleanup objectives (SCOs) for the contaminants of concern for this project is provided in Tables 2, 3 and 4.

Approximately 80% of the concrete floor in Building #1 was removed during the construction of the sub-slab depressurization system (SSDS) in Building #1. Approximately 122 tons of concrete were removed, and transported to Swift River Recycling for re-use.

No contaminated soil was removed from the site.

#### 4.3.1 Disposal Details

The quantity of materials removed from the Site as part of remedial measures was as follows:

• Concrete (~122 tons) transported to Swift River Recycling located at 4051 River Road in Tonawanda, New York, 14051; (716) 875-0902.

A summary of the analytical results for the composite concrete sample that was collected to characterize the waste is provided in Appendix E.

#### 4.3.2 On-Site Reuse

Approximately 1.3 cubic yards of soil were generated during installation of the SSDS lateral extraction points EP-1 and EP-2. In addition, approximately 16.5 cubic yards of soil was generated by Highland Plaza during repairs and re-routing of sewer and water utility lines located directly behind the building.

The soil was stockpiled behind the building and covered with plastic. In March, 2016 soil was collected from four discrete locations from the stockpiled soil and composited into one composite soil sample. The composite soil sample was analyzed for the following parameters:

•	USEPA Method 1010	Flashpoint
•	USEPA Method 9045	pH
•	USEPA Method 7.3.3.2	Reactive Cyanide
•	USEPA Method 7.3.4.2	Reactive Sulfur
•	USEPA Method 8270	Semi-volatile Organic Compounds
•	USEPA Method 8260	Volatile Organic Compounds

TCLP Mercury

**RCRA** Metals

The results were compared to applicable NYSDEC Part 375-6.7(d) cover system requirements, The VOC Tetrachloroethene was the only VOC detected and was detected at a concentration below the Unrestricted SCO.

USEPA Method 7470/13115

USEPA Method 6010

Eleven SVOCs were detected in the composite soil sample, seven of which were detected below their respective Unrestricted SCO. Benzo[a]anthracene was detected at a concentration of 1,210.0 ug/kg above its Unrestricted SCO of 1000.0 ug/kg. The results are summarized on Table 7 and the lab report for the composite sample is provided in Appendix E.

This information was provided to NYSDEC for review. Based on these results, Highland Plaza received approval for on-site reuse of this soil from the NYSDEC.

In addition, NYSDEC collected four discrete surface soil samples (0"-2") from the soil cover in May, 2017 after it was placed behind the building. This work was completed as part of the investigation of the off-site (Site No. C915293A). These samples were analyzed for the following parameters:

•	USEPA Method 8260	Volatile Organic Compounds
•	USEPA Method 8270	Semi-volatile Organic Compounds
•	USEPA Method 6010	Metals
•	USEPA Method 7471	Mercury
•	USEPA Method 8081	Pesticides
•	USEPA Method 8082	Polychlorinated Biphenyls (PCBs)
•	USEPA Method 537 (Modified)	Perfluorinated Hydrocarbons

Table 7 provides a summary of these test results. The lab report for the surface soil samples is also provided in Appendix E.

Three VOCs were detected in the four soil samples. Methylene chloride (a common laboratory contaminant) was detected in the four soil samples at concentrations below the NYSDEC Part 375 Unrestricted SCO. Tetrachloroethene was detected in two of the soil samples analyzed (SS-5 and SS-8) at concentrations below the Unrestricted SCO; and total Xylenes were detected in one sample (SS-5) at a concentration below the Unrestricted SCO (Table 7).

Thirteen SVOCs were detected in the four soil samples at estimated (J) concentration below their laboratory reporting limit and well below their respective Unrestricted SCOs (Table 7)

Seventeen metals commonly found in soils were detected in the four discrete surface soil samples. Iron was detected in all four soil samples at concentrations above the CP-51 Residential SCO. Zinc was detected at a concentration above the Unrestricted SCO, but below the Commercial SCO (Table 7).

Four pesticides were detected in the four surface soil samples. 4,4'-DDD was detected in all four samples below the Unrestricted SCO. 4.4'-DDE was also detected at all four locations: below the Unrestricted SCO at locations SS-5, SS-6 and SS-7; but above the Unrestricted SCO of 3.3 milligrams/kilograms (ug/kg) at location SS-8. The concentration 4.4'-DDE was below the Commercial SCO in all four samples. 4,4-DDT was detected at all four locations above the Unrestricted SCO of 3.3 ug/kg at a low of 4.2 ug/kg at location SS-7, to a high of 6.8 ug/kg at location SS-8', but below the Commercial SCO (Table 7).

There were no PCBs detected in the four surface soil samples that were analyzed (Table 7).

#### 4.4 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING

A table and figure summarizing all end-point sampling is included in Tables 2 and 3 and Figure 2, respectively, and all exceedances of SCOs are highlighted.

Data Usability Summary Reports (DUSRs) were prepared for all data generated in this remedial performance evaluation program. These DUSRs are included in Appendix F.

#### 4.5 CONTAMINATION REMAINING AT THE SITE

#### **4.5.1 Environmental Investigations**

Two environmental investigations were completed to characterize potential impacts to the Site.

First, a Preliminary Phase II Investigation and Soil Vapor Intrusion Study were completed at the Site in October, 2014. Twelve soil borings ranging in depths from 8 to 12 feet below ground surface were completed (Figure 2 and 3). Groundwater was encountered at only one location (SB-2) which is shown on Figures 2 and 3. SB-2 was

advanced to a depth of 8 feet. A groundwater sample was collected using a bailer through the drill pipe.

Eleven onsite soil samples were collected for laboratory analysis from the soil borings; in addition, one shallow soil sample was collected on-site and three shallow soil samples were also collected off-site in the adjacent service alleyway directly south of the site.

Secondly, in October, 2015 a Remedial Investigation (RI) started at the Site which consisted of the completion of 14 soil borings with the collection of 30 subsurface soil samples for laboratory analysis, installation of five groundwater monitoring wells (three onsite and two off-site), collection of five groundwater samples for analysis, collection of six shallow surface soil samples for analysis, and the completion of two soil vapor intrusion studies.

#### 4.5.2 Summary of Investigative Work

A total of 21 on-site soil samples have been collected and analyzed as part of the two investigations. In addition, 31 soil samples were collected off-site as part of the two investigations, four of which were collected immediately adjacent to the south end of the property. The soil samples have mostly been analyzed for VOCs: however four shallow and deep soil samples were also analyzed for semi-volatile organic compounds (SVOCs), total metals, pesticides and polychlorinated biphenyls (PCBs).

Groundwater samples were collected on-site from four different locations (one as part of the Phase II Investigation) and off-site from two different locations. All groundwater samples were analyzed for VOCs with SVOCs at one location on-site.

#### 4.5.2.1 Impacts to On-Site Soil

VOCs are present in the soil from the former dry cleaner at the eastern end of the Site. These compounds are present under the floor of the eastern end of the former dry cleaner, and in shallow soils in the parking lot north of the building at soil boring SB – 19 (Figures 2, 3 and 9). Cis-1,2-dichloroethene, Tetrachloroethene and Trichloroethene were detected at concentrations below their respective NYSDEC Part 375 Commercial Soil Cleanup Objectives (SCOs), but were above the NYSDEC Part 375 Unrestricted

SCO (Table 2).

There were no SVOCs detected in the on-site soil samples analyzed as part of the RI.

Four on-site soil samples were analyzed for metals; three shallow soil samples (6-12" and 6"-18") and one deep soil sample (23'-24'). Ten metals typically found in soils were present in the on-site soil samples that were analyzed for metals, The 10 metals were detected at concentrations below the respective Unrestricted SCOs (Table 5).

There were no pesticides detected above their respective method detection limits in the on-site soil samples analyzed as part of the RI, and there were no PCBs detected in the on-site samples analyzed.

Tables 2 and 3 and Figure 9 summarize the results of all soil samples remaining at the site after completion of the Remedial Action that exceed the Track 1 (unrestricted) SCOs.

#### 4.5.2.2 On-Site Impacts to Groundwater

Groundwater samples were only analyzed for VOCs since there was insufficient volume of water and recharge to allow for the collection of enough water to complete a full suite of analyses. The shortened analyte list was approved by NYSDEC in the field due to slow groundwater recharge in the monitoring wells.

Groundwater quality has been impacted by former dry cleaning operations at the easternmost end of the Site (Figures 2 and 10). The VOC Cis-1,2-dichloroethene was detected at a concentration slightly above its guidance value per NYSDEC Technical and Operational Series 1.1.1 – Ambient Water Quality Standards and Guidance. There were no other VOCs detected in on-site groundwater (Table 6).

Figure 10 shows the location of potential groundwater contamination at the Site. Since contaminated soil, groundwater and soil vapor remains beneath the site after completion of the Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of

these EC/ICs and residual contamination will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

#### 4.6 SOIL COVER SYSTEM

Exposure to remaining contamination in soil/fill at the site is prevented by a cover system placed over the site. This cover system is comprised of a minimum of 12 inches to 18 inches of soil, asphalt pavement, concrete sidewalks, and concrete building slabs. Figure 4 shows the as-built cross sections for each remedial cover type used on the site. Figure 5 shows the location of each cover type built at the Site. An Excavation Work Plan, which outlines the procedures required in the event the cover system and/or underlying residual contamination are disturbed, is provided in Appendix A of the SMP.

#### 4.7 OTHER ENGINEERING CONTROLS

Since remaining contaminated soil, groundwater and soil vapor exists beneath the site, Engineering Controls (EC) are required to protect human health and the environment. The site has the following primary Engineering Controls, as described in the following subsections.

#### 4.7.1 Sub-Slab Depressurization System at 235 – 237 Highland Parkway

This engineering control has been described in Section 3.1.1 of this report.

#### 4.7.2 Sub-Slab Depressurization System at 231 Highland Parkway

This engineering control has been described in Section 3.1.2 of this report.

Procedures for monitoring, operating and maintaining the site cover system and SSDSs are provided in the Operation and Maintenance Plan in Section 5 of the Site Management Plan (SMP). The Monitoring Plan also addresses inspection procedures that must occur after any severe weather condition has taken place that may affect on-site ECs.

#### 4.8 INSTITUTIONAL CONTROLS

The site remedy requires that an environmental easement be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent

future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to commercial uses only.

The environmental easement for the site was executed by the Department on August 3, 2017, and filed with the Erie County Clerk on August 22, 2017. The County Recording Identifier number for this filing is 2017168610 BK/PG D11317/6208. A copy of the easement and proof of filing is provided in Appendix G.

# 4.9 DEVIATIONS FROM THE INTERIM RFEMEDIAL MEASURES WORK PLAN AND WORK PLAN ADDENDUM

#### 4.9.1 Interim Remedial Measures Work Plan

The Interim Remedial Measures Work Plan was approved to allow for the construction of the SSDS in Building #1. Highland Plaza removed the concrete floor in Building #1 where it was covered with a wooden lattice (approximately 80% of the tenant spaces). This was not originally proposed in the Interim Remedial Measures Work Plan. A verbal approval was received from NYSDEC prior to commencement of this activity.

The three mitigation fans for the SSDS were originally proposed to be mounted on the back (south side) of Building #1. Highland Plaza sought and received verbal approval from NYSDEC to locate these mitigation fans on the roof of the building.

#### 4.9.2 Interim Remedial Measures Work Plan Addendum

There were no work plan deviations associated with the Interim Remedial Measures Work Plan Addendum to construct the SSDS in Building #2 in the tenant space at 231 Highland Parkway.

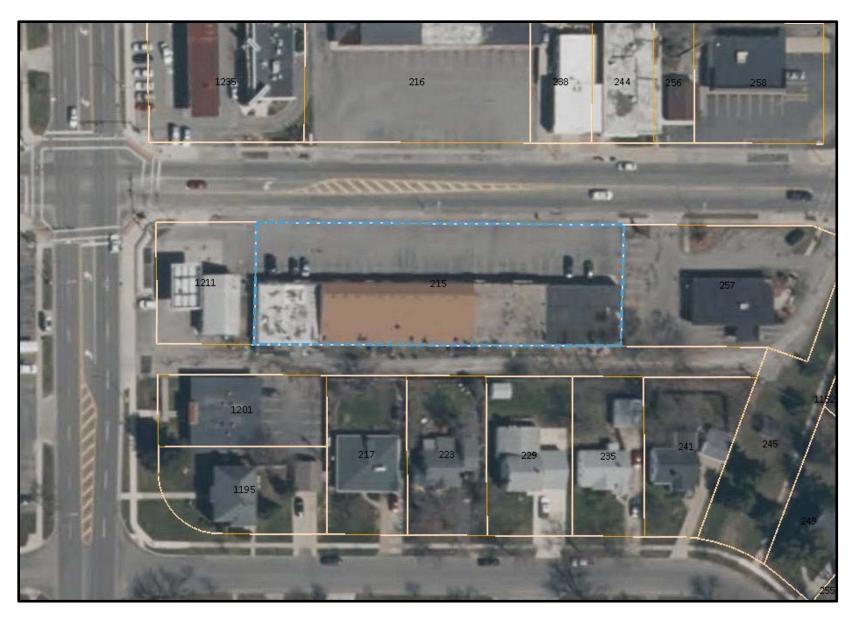
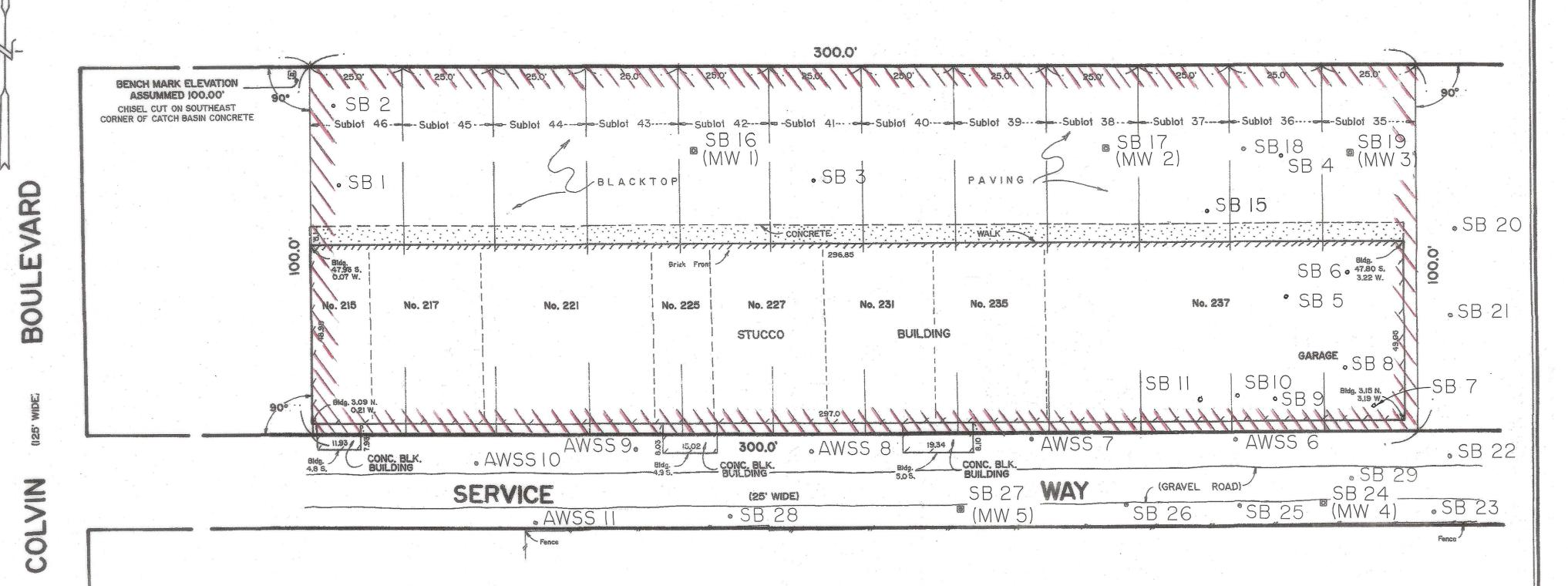


Figure 1. Location of the Highland Plaza BCP Site (Site No. C915293) in Tonawanda, Erie County, New York.

# HIGHLAND

(66, MIDE)

# PARKWAY



DELINEATES BROWNFIELD AREA BOUNDARY

Tenant spaces/Addresses are as shown on EGMS Drawing FIGURE 4: RI VAPOR INTRUSIONSAMPLE LOCATIONS SOIL VAPOR INTRUSION INVESTIGATION HIGHLAND PLAZA IN TONAWANDA, N.Y. Dated May 2016

SOIL BORING SB 1 WAS NOT SAMPLED

THE ADDITIONAL SOIL BORING LOCATIONS AND REVISED SOIL BORING LOCATIONS ARE SHOWN ACCORDING TO DIMENSIONS PROVIDED TO OUR FIRM IN A LETTER FROM ENVIRONMENTAL & GEOLOGICAL MANAGEMENT SERVICES, LLC Dated May 15, 2017

SONNENBERGER LAND SURVEYING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF ADDITIONAL AND REVISED SOIL BORING LOCATIONS.

nap void unless EMBOSSED with w York State Licensed Land urveyor's Seal No. 049989

Point Description	Distance East of Northwest Property Corner	Distance South of Northwest Property Corner	Elevation (PVC Pipe)
SB 16 (MW 1)	104.45	22.36	100.51
SB 17 (MW 2)	216.22	22.43	100.18
SB 19 (MW 3)	282.43	24.29	100.08
SB 24 (MW 4)	274.59	119.19	101.45
SB 27 (MW 5)	176.13	120.15	102.06
SB 18	253.63	22.88	
SB20	310.68	44.85	
SB 21	309.38	68.53	
SB 22	309.20	106.52	
SB 23	304.75	121.78	
SB 25	251.83	119.34	
SB 26	221.32	118.93	
SB 28	113.74	121.41	
SB 29	282.23	112.08	
AWSS 6	251.01	101.56	
AWSS 7	195.55	101.02	
AWSS 8	136.09	104.20	
AWSS 9	88.35	102.98	
AWSS 10	45.14	106.68	
AWSS 11	61.17	122.98	

Point Description	Distance East of Northwest Property Corner	Distance South of Northwest Property Corner	
SB 1	8'	32.5'	
SB 2 SB 3	6.5'	10'	
	136'	31'	
SB 15	242'	39.5'	
SB 4	262'	24'	
SOIL BORI	NG LOCATIONS ARE APPR	OXIMATE	

Corner	Distance South of Northeast Building Corner	
32'	15'	
15'	8'	
8'	44'	
16'	34'	
35'	43'	
45'	42'	
55'	43'	
	32' 15' 8' 16' 35' 45'	

FIGURE 2: SITE BASE MAP HIGHLAND PLAZA TONAWANDA, NEW YORK

SUBLOTS 35 to 46 INCLUSIVE MAP COVER 1400 PART OF LOT 33, TOWNSHIP 12, RANGE 8 TOWN OF TONAWANDA ERIE COUNTY, NEW YORK



# SONNENBERGER LAND SURVEYING

60 NIAGARA STREET BUFFALO, NEW YORK 14202 (716) 854-0159 SonnenbergerLandSurveying.com

SCALE: 1" = 20"

DATE: NOV. 10, 2015

SHEET: 69621 REVISED 5/20/16

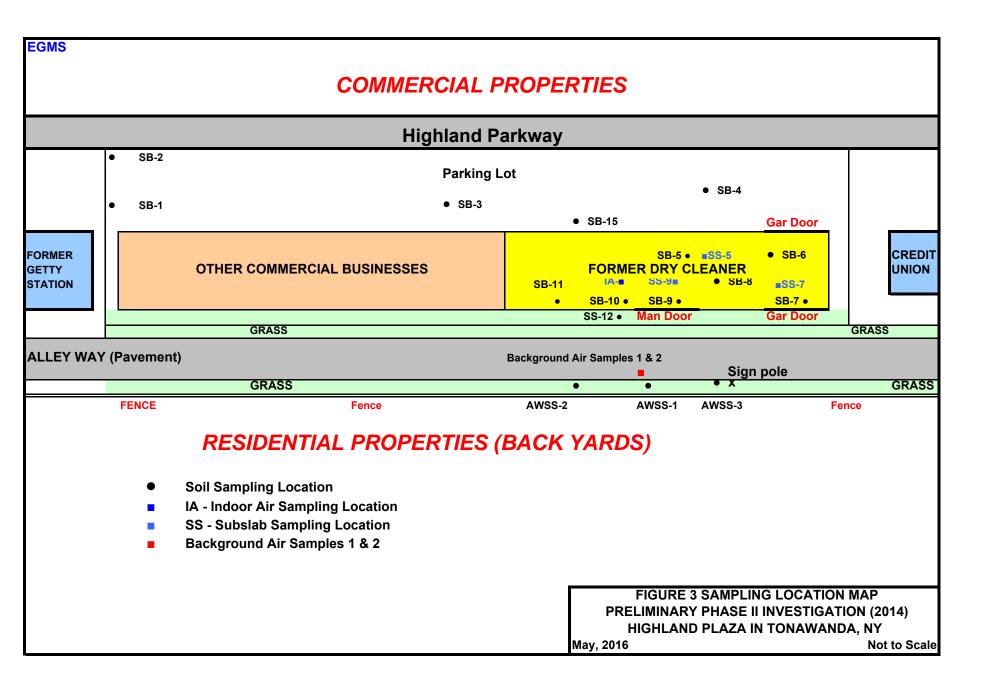
No. 15-221 ATS-I REVISED 5/18/17

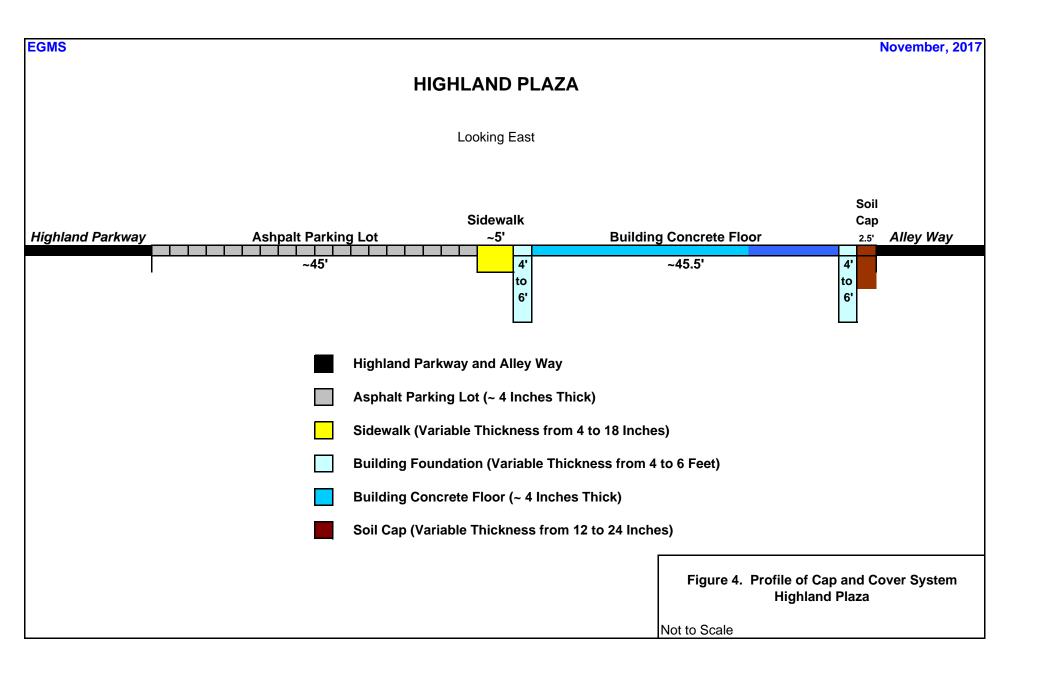
Part 2 of the New York State Education Law.

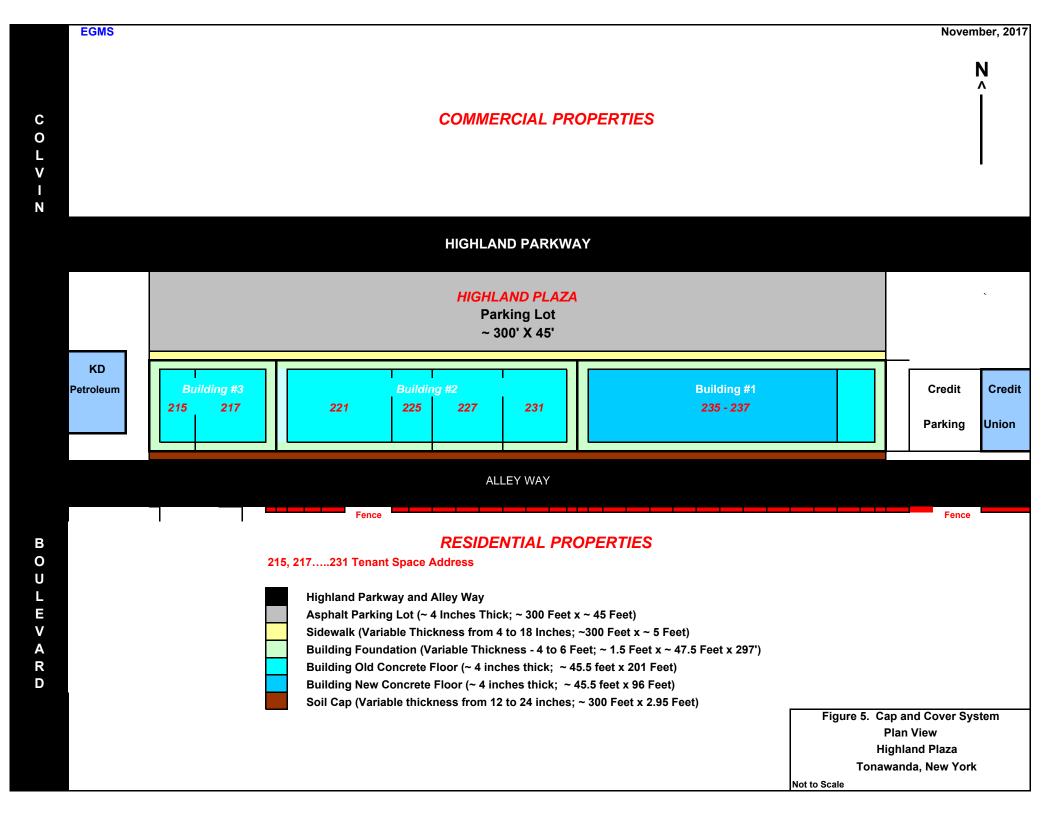
This Survey was prepared without the benefit of a current full obstract of title and is subject to any state of facts that may be revealed by an examination of same

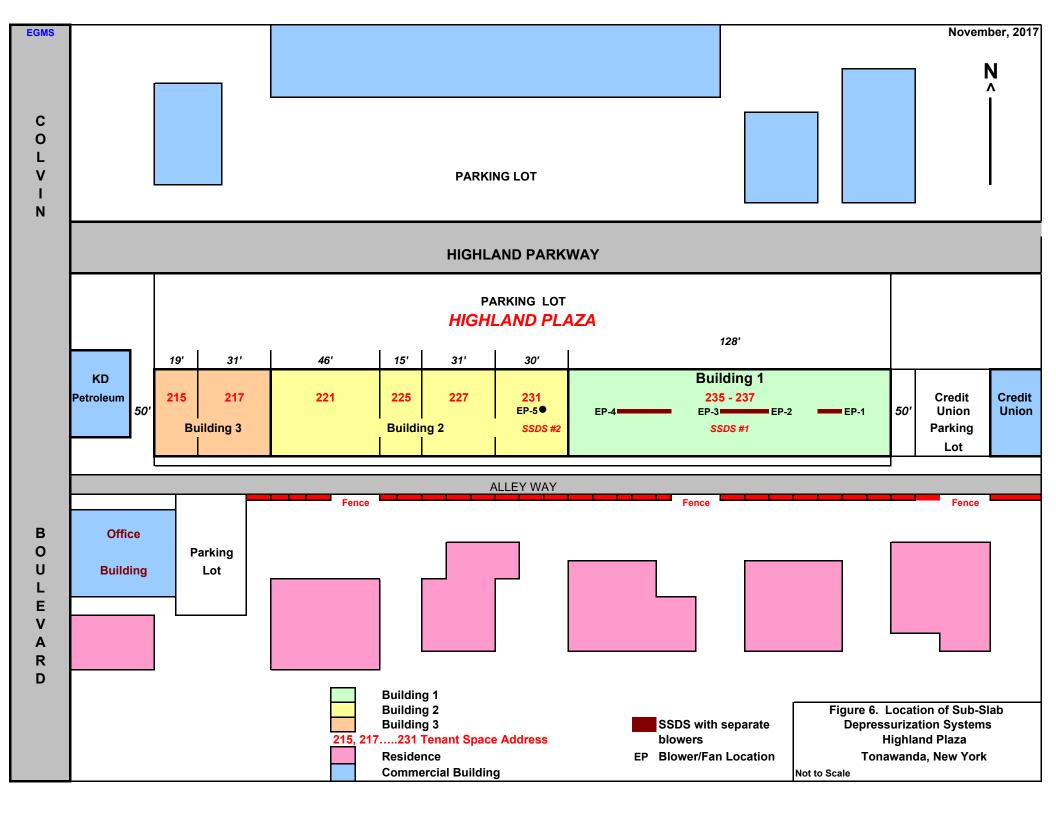
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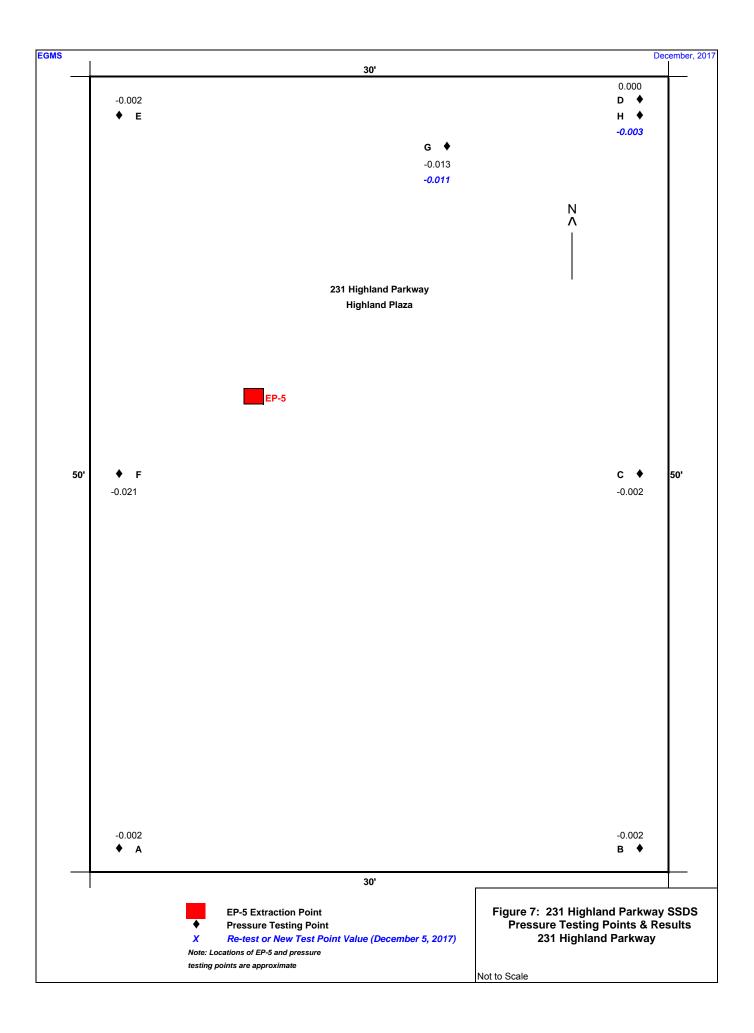
Attering any item on this map is in violation of the law, excepting as provided in Section 7209,

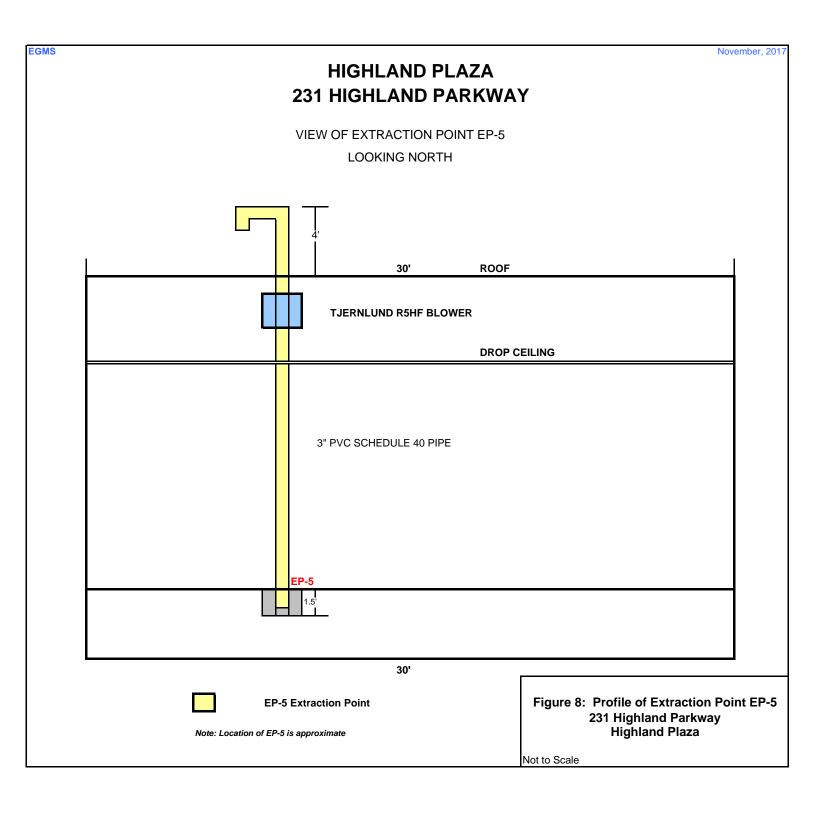


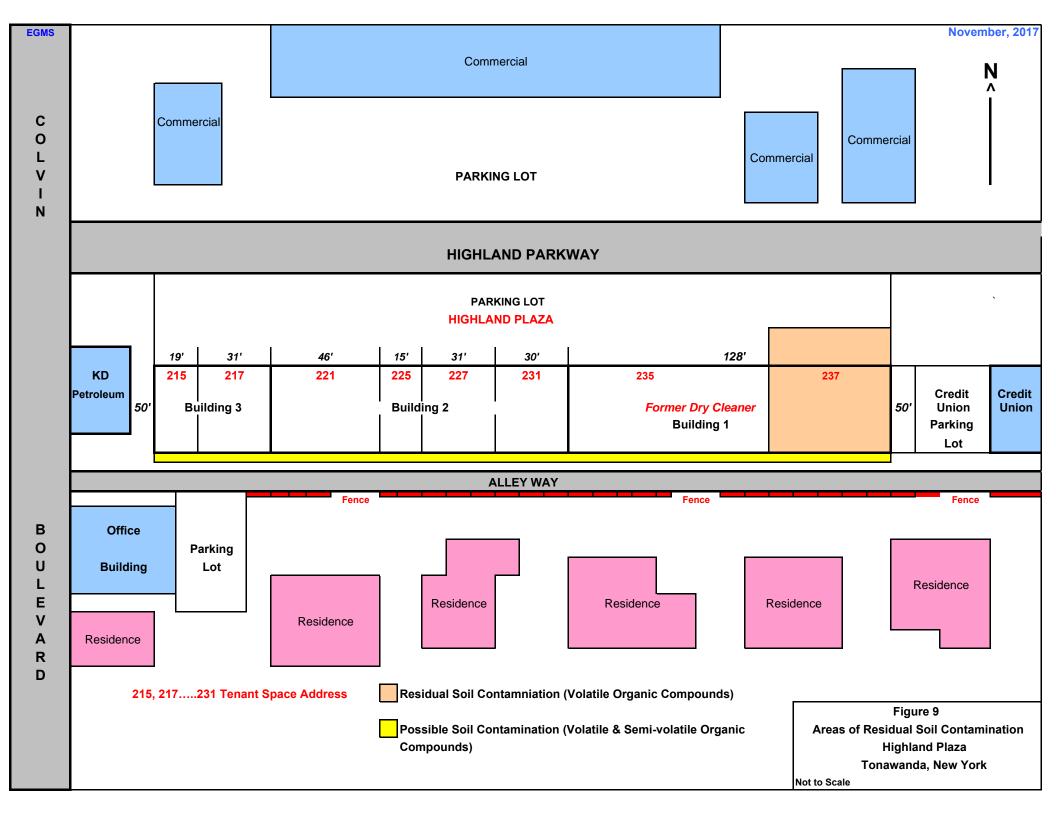


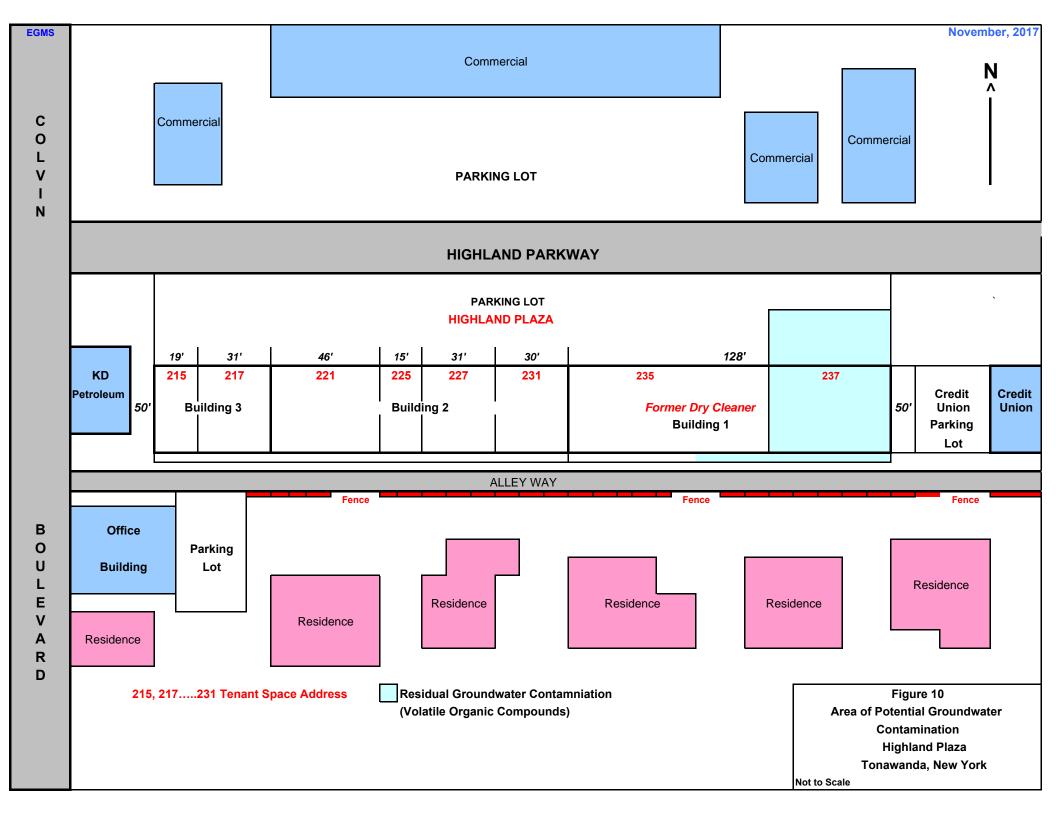












EGMS December, 2017

# TABLE 1: SUB-SLAB DEPRESSURIZATION SYSTEM TEST POINT SUMMARY 231 HIGHLAND PARKWAY HIGHLAND PLAZA IN TONAWANDA, NEW YORK NOVEMBER & DECEMBER, 2017

Test Point	Distance from North Wall	Distance from South Wall	Distance from East Wall	Distance from West Wall	Pressure
TP-A		~11'		~2'	(-) 0.003
	1				() 0.000
TP-B		~5'	~1		(-) 0.002
TP-C		~23.5'	~1'		(-) 0.002
		1			
TP-D	~3.25'		~1'		(-) 0.000
TP-E	~5'			~1'	(-) 0.002
	1 101	<del>, , , , , , , , , , , , , , , , , , , </del>			() 2 221
TP-F	~12'			~2'	(-) 0.021
TP-G	`5'		~13'		(-) 0.013
					(-) 0.011*
TP-H	~4.75'	<del></del>	~1'	T	(-) 0.003*

<sup>\*</sup> Additional Testimg and Re-testing on December 5, 2017

EGMS November, 2017

# TABLE 2: SOIL CLEANUP OBJECTIVES FINAL ENGINEERING REPORT HIGHLAND PLAZA IN TONAWANDA, NEW YORK

Volatile Organic Compounds	ppm=mg/kg
cis -1,2-Dichloroethene	500
Acetone	500
Benzene	44
Methylene chloride	500
Tetrachloroethene	150
Trichloroethene	200

Semi-volatile Organic Compounds	ppm=mg/kg
Benz(a)anthracene	5.6
Benzo(a)pyrene	1
Benzo(b)fluoranthene	5.6
Benzo(k)fluoranthene	56
Chrysene	56
Dibenzo(a,h) anthracene	0.56
Indeno(1,2,3-cd)pyrene	5.6

EGMS November, 2017

## TABLE 3. REMAINING ON SITE SOIL CONTAMINATION (VOLATILE ORGANIC COMPOUNDS) FINAL ENGINEERING REPORT

### HIGHLAND PLAZA IN TONAWANDA, NEW YORK

			Sample #	SB - 5	SB -6	SB -7	SB -8	SB -9	SB -10	SB -19	SB -19
Volatile Organic Compounds ppm=mg/kg		Depth	4 ft-8 ft	4 ft-8 ft	0.5 ft- 2 ft	0.5 ft- 2 ft	0.5 ft- 2 ft	0 ft-4 ft	6 in-18 in	6 in-18 in	
	Unrestricted	Commer-	Date	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	10_14	10_14
	Use	cial									
cis -1,2-Dichloroethene	0.25	500°		0.163	0.0816	ND (0.0361	ND (0.119)	ND (0.0105)	ND (0.010)	0.0072 <sub>F1</sub>	0.0072 1
Acetone	0.05	500°		ND (0.812)	ND (0.0595)	ND (0.181)	ND (0.597)	ND (0.0524)	ND (0.050)	0.019	0.019 F
Benzene	0.06	44		ND (0.162)	ND (0.0119)	ND (0.0361)	ND (0.119)	ND (0.0105)	ND (0.010)	0.24	0.24
Methylene chloride	0.05	500°		ND (0.406)	ND (0.0297)	ND (0.0903	ND (0.299)	ND (0.0262	ND (0.025)	0.0021 JB	0.0021 B
Tetrachloroethene	1.3	150		3.4	0.5150	1.95	1.23	0.061	0.0218	9.6	9.6
Trichloroethene	0.47	200		0.625	0.101	0.118	ND (0.119)	0.0108	ND (0.010)	0.53	0.53

(JF2F1B)

Footnotes:

Exceeds NYSDEC Part 375 Unrestricted Use Soil Cleanup Objective

Exceeds NYSDEC Part 375 Commercial Soil Cleanup Objective

**ND** Not Detected above method detection limit

**NA** Not Analyzed

- H Sample was prepped or analyzed beyond the specified holding time
- B Compound was found in the blank and sample
- J Result is less than the reporting limit (RL), but > than or = to the method detection limit (MDL), and is estimated.
- F1 MS and/or MSD Recovery is outside acceptance limits
- F2 MS/MSD RPD exceeds control limits

EGMS November, 2017

### TABLE 4: POTENTIAL REMAINING SOIL CONTAMINATION (SEMI-VOLATILE ORGANIC COMPOUNDS) FINAL ENGINEERING REPORT

### HIGHLAND PLAZA IN TONAWANDA, NEW YORK

		Sample #	AWSS-6	AWSS-7	AWSS-9	AWSS-11	
			Depth	0 in-4 in	0 in-4 in	0 in-4 in	0 in-4 in
	Unrestricted	Commercial	Date	10/18/2015	10/18/2015	10/18/2015	10/18/2015
Compounds ppm=mg/kg							
Benz(a)anthracene '	1	5.6		ND (0.95)	<b>9.5</b> J	28.0	2.38 J
Benzo(a)pyrene	1	1		<b>2.0</b> J	<b>9.6</b> J	26.0	<b>3.4</b> J
Benzo(b)fluoranthene'	1	5.6		1.7 J	12.0	33.0	4.5 J
Benzo(k)fluoranthene'	0.8	56		ND (1.2)	5.3 J	16.0	1.1 J
Chrysene '	1	56		ND (2.1)	9.7 J	28.0	2.8 J
Dibenzo(a,h) anthracene	0.33	0.56		ND (1.7)	ND (1.8)	<b>6.6</b> J	<b>2.2</b> J
Indeno(1,2,3-cd)pyrene '	0.5	5.6		ND (1.2)	6.5 J	17.0	3.0 J

Footnotes:

Exceeds NYSDEC Part 375 Unrestricted Use Soil Cleanup Objective

Exceeds NYSDEC Part 375 Commercial Soil Cleanup Objective

NS: No standard No standard

ND Not Detected ab Not Detected above method detection limit

NA Not Analyzed Not Analyzed

- H: Sample was preg Sample was prepped or analyzed beyond the specified holding time
- B: Compound was I Compound was found in the blank and sample
- J: Result is < than the reporting limit (RL), but > than or = to the method detection limit (MDL), and is estimated
- F1: MS and/or MSD MS and/or MSD Recovery is outside acceptance limits
- F2: MS/MSD RPD ex MS/MSD RPD exceeds control limits

### EGMS April, 2017

#### TABLE 5

## SUMMARY OF ON-SITE ANALYTICAL RESULTS FOR TOTAL METALS DETECTED IN NEAR SURFACE & SUBSURFACE SOIL HIGHLAND PLAZA BCP SITE, SITE NO. C915293

Sample No.	Unrestricted	Commercial	SB16	SB-17	SB-17	SB-17 Dup	SB-19
Sample Depth	SCOs	SCOs	6 in-12 in	6 in-12 in	23 ft-24 ft	23 ft-24 ft	6 in-18 in
Sample Date	(ppm)	(ppm)	10/14/2015	10/14/2015	10/14/2015	10/14/2015	10/14/2015
Arsenic	13	16	6.6	6.1	3.1	3.0	6.2
Barium	350	400	110.0	122.0	90.5	82.5	131.0 F2F1
Beryllium	7.2	590	0.68	0.78	0.35	0.48	0.86
Cadmium	2.5	9.3	0.28	0.33	0.36	0.19 J	0.27
Copper	50	270	15.5	12.9	7.5	12.9	13.7
Lead	63	1,000	9.5	11.9	6.9	8.4	10.9
Manganese	1,600	10,000	447.0 B	721.0 B	497.0 B	470.0 B	460.0 F2B
Total Mercury	0.18	2.8	0.021 J	ND (0.0089)	ND (0.008)	ND (0.0084)	0.015 J
Nickel	30	310	21.6	23.0	11.8	17.0	25.9
Selenium	3.9 <sup>c</sup>	1,500	ND (0.50)	ND (0.47)	ND (0.41)	ND (0.43)	ND (0.47)
Silver	2	1,500	ND (0.25)	ND (0.23)	ND (0.21)	ND (0.22)	ND (0.24)
Zinc	109	10,000	48.2	83.7	61.3	41.3	57.7 F1

#### Notes:

ND = Not Detected above method detection limit given in parentheses.

B = Value is greater than or equal to the instrument detection limit, but less than the contract required detection limit (inorganics).

J = Result is less than the reporting limit (RL), but > than or = to the method detection limit (MDL), and is estimated.

F1 = MS and/or MSD Recovery is outside acceptance limits.

F2 = MS/MSD RPD exceeds control limits.

Yellow shaded values exceed the NYSDEC Part 375 Unrestricted Soil Cleanup Objectives.

Orange shaded values exceed the NYSDEC Part 375 Commercial Soil Cleanup Objectives.

### EGMS November, 2017

# TABLE 6: ON SITE GROUNDWATER CONTAMINATION VOLATILE ORGANIC COMPOUNDS FINAL ENGINEERING REPORT HIGHLAND PLAZA IN TONAWANDA, NEW YORK

Sample Location	NYSDEC	SB - 2	MW-1	MW-2	MW-2 Dup	MW-3
Sample Date	Standards &	13-May-14	22-Dec-15	22-Dec-15	22-Dec-15	22-Dec-15
Matrix	Guidance	Water	Water	Water	Water	Water
Units	Values	ug/L	ug/L	ug/L	ug/L	ug/L
Contaminant	(ug/L)					
Volatile Organic Compo	unds					
Acetone	50	ND (<10.0)	5. 4 J	ND (3.0)	ND (3.0)	ND (3.0)
cis-1,2-Dichloroethene	5	ND (<2.0)	ND (0.74)	ND (0.81)	ND (0.81)	24.0
Trichloroethene	5	ND (<2.0)	ND (0.46)	ND (0.46)	ND (0.46)	0.85 J

Notes

Exceeds standard

1) Standards are NYSDEC T.O.G.S 1.1.1 Ambient Water Quality Standards

- 2) NS=no standard
- J= Estimated Value

**E= Result Exceeded Calibration Range** 

EGMS DECEMBER, 2016

TABLE 7: SURFACE SOIL ANALYTICAL RESULTS - HIGHLAND PLAZA SOIL COVER
NYSDEC PROJECT C915293A
TONAWANDA NEW YORK

TONAWANDA, NEW YORK										
Sample Point			Composite	SS-5 ●	SS-6 ●	SS-7 ●	SS-8 •			
Sample Type	Unrestricted	Residential	Soil	Soil	Soil	Soil	Soil			
Depth (ft)	Soil Cleanup	Soil Cleanup	0" - 2"	0" - 2"	0" - 2"	0" - 2"	0" - 2"			
Sample Date	Objectives *	Objectives *	03/09/16	05/02/17	05/02/17	05/02/17	05/02/17			
	Volatile Organic Compounds (μg/kg)									
1,1,1-Trichloroethane	680.0	100,000								
1,1-Dichloroethene	330.0	100,000								
cis -1,2-Dichloroethene	250.0	59,000								
trans-1,2-Dichloroethene	190.0	100,000								
Acetone	50.0	100,000								
Benzene	60.0	2,900								
Chloroform	370.0	10,000								
Methyl ethyl ketone	120.0	100,000								
Methylene chloride	50.0	51,000		2.9	1.6	0.69 J	3.0			
n-Propylbenzene	3,900	100,000								
Tetrachloroethene	1,300	5,500	9.7	0.43 J			0.45 J			
Toluene	700.0	100,000								
Trichloroethene	470.0	10,000								
1,2,4-Trimethylbenzene	3,600	47,000								
1,3,5-Trimethylbenzene	8,400	47,000								
Vinyl chloride	20.0	210.0								
Xylene (Total)	260.0	100,000		0.17 J						
	Semi-Vola	atile Organic C	ompounds (	μg/kg)						
Anthracene (PAH)	100,000	100,000	488							
Bis(2-ethylhexyl) phthalate	NS	50,000 **		1,000						
Acenaphthene (PAH)	20,000	100,000								
Anthracene (PAH)	100,000	100,000								
Benzo[a]anthracene (PAH)	1,000	1,000	1210.0	350 J	530 J	720 J F2 F1	810 J			
Benzo[a]pyrene (PAH)	1,000	1,000	1000.0	340 J		770 J F2 F1	710 J			
Benzo[b]fluoranthene (PAH)	1,000	1,000	947.0	460 J		810 J F2 F1	820 J			
Benzo[g,h,i]perylene (PAH)	100,000	100,000	593.0	220 J		440 J F2	460 J			
Benzo[k]fluoranthene (PAH)	800.0	1,000	901.0	170 J		510 J F2 F1	450 J			
Butyl benzyl phthalate	NS	100,000 **					620 J			
Carbazole	NS	NS					110 J			
Chrysene (PAH)	1,000	1,000	1190.0	350 J		710 J F2 F1	740 J			
Dibenzo[a,h]anthracene (PAH)	330.0	330.0								
Dibenzofuran	7,000	14,000								
Fluoranthene (PAH)	100,000	100,000	2890.0	730 J	1,100 J	1,500 F2 F1	1,500			
Fluorene (PAH)	30,000	100,000								
Indeno[1,2,3-cd]pyrene (PAH)	500.0	500.0	755.0	210 J		430 J F2	440 J			
Naphthalene (PAH)	12,000	100,000								
Phenanthrene (PAH)	100,000	100,000	2150.0	430 J	780 J	760 J F2 F1	860 J			
Pyrene (PAH)	100,000	100,000	2180.0	610 J	780 J	1,500 F2 F1	1,300			

EGMS DECEMBER, 2016

TABLE 7: SURFACE SOIL ANALYTICAL RESULTS - HIGHLAND PLAZA SOIL COVER (CONT'D)

Sample Point			Composite	SS-5 ●	SS-6 <b>●</b>	SS-7 <b>●</b>	SS-8 <b>●</b>
	Unrestricted	Residential	Soil	Soil	Soil	Soil	Soil
Sample Type Depth (ft)	Soil Cleanup	Soil Cleanup	0" - 2"	0" - 2"	0" - 2"	0" - 2"	0" - 2"
	Objectives *	Objectives *			05/02/17		
Sample Date			03/09/16	05/02/17	03/02/17	05/02/17	05/02/17
		esticides & PC	Bs (μg/kg)				1
Aldrin	5.0	19.0					
alpha-BHC	20.0	97.0					
alpha-Chlordane	94.0	910.0					
beta-BHC	36.0	72.0					
delta-BHC	40.0	100,000					
gamma-BHC (Lindane)	100.0	280.0					
gamma-Chlordane	NS	540.0 **					
4,4'-DDD	3.3	2,600		1.8 J	2.4	1.3 J	1.7 J
4,4'-DDE	3.3	1,800		1.3 J	1.6 J	3.0	4.8
4,4'-DDT	3.3	1,700		5.8	4.5	4.2	6.8
Dieldrin	5.0	39.0					0.78 J
Endosulfan I	2,400	4,800					
Endosulfan II	2,400	4,800					
Endosulfan Sulfate	2,400	4,800					
Endrin	14.0	2,200					
Heptachlor	42.0	420.0					
Heptachlor epoxide	NS	77.0 **					
PCBs (Total)	100.0	1,000					
		Metals (m	g/kg)				
Aluminum	NS	NS		17,900	18,000	14,900	12,200
Antimony ■	NS	NS					
Arsenic ■	13.0	16.0		6.3	5.0	3.5	4.4
Barium	350.0	350.0		160.0	109.0	93.0 F1	82.4
Beryllium ■	7.2	14.0		0.76	0.72	0.63	0.54
Cadmium ■	2.5	2.5		0.55	0.40	0.33	0.40
Chromium ■	30.0	36.0		21.8	21.8	19.0	16.0
Cobalt	NS	30 **		14.8	9.3	7.9	7.4
Copper <b>■</b>	50.0	270.0		19.9	17.6	17.5	19.0
Iron	NS	2,000 **		20,900	19,100	15,700	13,400
Lead ■	63.0	400.0		41.2	44.7	19.0	25.0
Manganese	1,600	2,000		1,160 B	514 B	373 B F2	673 B
Mercury ■	0.18	0.81		0.047	0.044	0.027	0.074
Nickel	30.0	140.0		21.2	19.4	18.5	17.6
Selenium ■	3.9	36.0		0.94 J	==	_3.5	=
Silver ■	2.0	36.0		2.2.0			
Vanadium	NS NS	100 **		37.2	36.2	29.1	25.9
Zinc ■	109.0	2,200		112.0	107.0	82.9 F1	77.1
	1 103.0	_,				a courtesy o	

Data courtesy of NYSDEC

### Notes:

<sup>\* = 6</sup> NYCRR Part 375: Environmental Remediation Programs, Residential Soil Cleanup Objectives, NYSDEC, 2006.

<sup>\*\* =</sup> Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010

= Sample collected from soil excavated during construction of the SSDS in the former dry cleaner tenant space and spread over the ground surface behind the plaza building

μg/kg = micrograms per kilogram or parts per billion.

mg/kg = milligrams per kilogram or parts per million.

■ = Environmental Protection Agency priority pollutant metal.

B = Analyte detected in the associated blank, as well as in the sample (organics); value is greater than or equal to instrumentation detection limit, but less than the contract required detection limit

### Notes (continued):

F1 = MS and/or MSD recovery is outside acceptance limits.

F2 = MS/MSD RPD exceeds control limits.

J = Compound is positively identified and reported at an estimated concentration below the reporting limit.

NA = Not analyzed.

NS = No standard given in 6 NYCRR Part 375 or Commissioner Policy CP-51.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

Purple shaded values exceed the CP-51 residential soil cleanup objectives.

## APPENDIX A SURVEY MAP, METES AND BOUNDS

### METES AND BOUNDS DESCRIPTION 215 – 237 HIGHLAND PARKWAY TONAWANDA, NEW YORK

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Tonawanda, County of Erie and State of New York, being part of Lot No. 33, Township 12, Range 6 of the Holland Land Company's Survey and being Sublot No.s 35 to 46 inclusive, under Map Cover 1400 according to a map of Highland Park filed in the Erie County Clerk's Office and more particularly described as follows:

COMMENCING at the intersection of the east line of Colvin Boulevard (125 feet wide) with the south line of Highland Parkway (66 feet wide);

Thence easterly along the south line of Highland Parkway a distance of eighty (80.0) feet to the true POINT OF BEGINNING;

Thence easterly along the south line of Highland Parkway a distance of three hundred (300.0) feet to a point;

Thence southerly at right angles to the said south line of Highland Parkway a distance of one hundred (100.0) feet to a point;

Thence westerly and parallel with the south line of Highland Parkway a distance of three hundred (300.0) feet to a point:

Thence northerly at right angles to the last described line a distance of one hundred (100.0) feet to the true POINT OF BEGINNING.

Containing  $0.69 \pm Acre$ 

#### DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND, situate in the two of Tenawards, Cousty of Frie and State of New York, being part of 1ct No.3, Township J. Ramge for the Holland Land Company's Survey and being Sublet No.3 3 to 46 inclusive, ender May Govern 1000 according to a mope of Highbard Paride to the Vite County Old Secretary of the No.3 3 to 46 inclusive, and May Govern Old Secretary County of Highbard Paride to the Vite County Clerk's Office and more particularly described as follows:

COMMENCING at the intersection of the eart line of Colvin Boulevard (125 feet wide) with the south line of Highland Parkway (66 feet wide);

Theore casterly along the unth line of Highland Parkway a distance of eighty (80.0) feet to the true POINT OF BLGINNING:

There easterly along the south line of Highland Parkway a distance of three hundred (300.0) feet to a point;

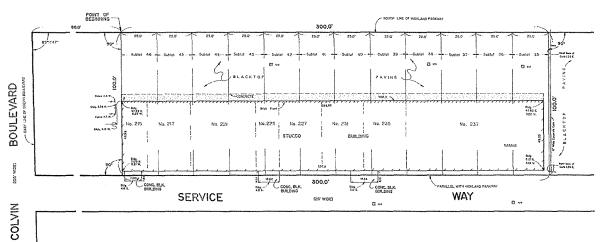
Thence southerly at right angles to the said south line of Highland Parkway a distance of one hundred (100,0) feet to a point;

Thence westerly and parallel with the south line of Highland Purkway a distance of three hundred (300.0) feet to a point:

Thence northerly stright angles to the last described line a distance of one hundred (100.0) feet to the true POINT OF BEGINNING.

Containing 0.69 & Acre





HISPERY CERTIFY

THAT THIS REPORT OF SURVEY, OF THAT PARCEL OF LAND DEPICIED HERCOST, DATED, APRIL 14, 2017. AND NUMBERED 17-69.

HEAR REIN PARK MEDI TROTE MY DERECTION HORREVISION FROM DESCRIPTIONS PRINCIPLED THIS OFFICE AND TO THE REST OF MY KNOWLERIES AND RELETS THE ACCORDANCE WITH THE STANDARD FOR LAND TITLE SURVEYS AS PORNLY ADOPTED BY THE REGULAR PROPERTY AND STREET AND STREET AND ADDRESS OF THE REGULAR ASSOCIATION (REW YORK)

THE CERTIFICATION DOES NOT EXTEND TUST ESCRIPTIF OWNERS, LENDONG INSTITUTIONS OR THLE ROUNIES.

Thereis X. McLagar, Francis X. Meraper N.Y.S. Liveren No. 049499

Sublots 35 % 46 inclusive Map cover 1400 Part of lot33 township 12, range 8 Town of tonawanda Erie County, New York



BAR SCALE I" = 20' IMETER = 3.281 FEET

LEGEND

CLACKTOP FENCE BULCONS SOUTH

EAST WEST

MONITORIUS WEST

DENTED one. BLXTP.

SONNENBERGER LAND SURVEYING

SCALE F x 20' DATE APRIL 14, 2017 SPEET 69621 No. , 17-69

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HIGHLAND

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The map you whos MASCASSO with They fort State Interlegitard Surveyor's Seal No. 04/9/69

committee data someoned teach supervisor

## APPENDIX B DIGITAL COPY OF FINAL ENGINEERING REPORT

## APPENDIX C INTERIM REMEDIAL MEASURES CONSTRUCTION REPORT

### HIGHLAND PLAZA BROWNFIELD SITE # C915293

### 215 HIGHLAND PARKWAY TONAWANDA, NEW YORK

### CONSTRUCTION COMPLETION REPORT

INTERIM REMEDIAL MEASURE

SUB-SLAB DEPRESSURIZATION SYSTEM

235 – 237 HIGHLAND PARKWAY

**PREPARED FOR:** 

NYSDEC REGION 9 & NYSDOH

### PREPARED BY:

HIGHLAND PLAZA &
ENVIRONMENTAL & GEOLOGIC MANAGEMENTS SERVICES, LLC

September 2017

Revision 1

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### 1. INTRODUCTION

The installation of a Sub-Slab Depressurization System (SSDS) at the Highland Plaza Brownfield Site C915293 (Site) was completed as an interim remedial measure (IRM) in accordance with the New York State Department of Environmental Conservation (NYSDEC)/New York Department of Health (NYSDOH) approved work plan dated January, 2016. The following document provides a summary of the work elements that were completed as part of this IRM.

### 2. SITE DESCRIPTION

The Site is located in Tonawanda, New York at the intersection of Highland Parkway and Colvin Boulevard. It is approximately 297 feet in length (east – west) and approximately 100 feet wide in the north – south direction. Approximately 50% of the Site is occupied by a slab on grade strip plaza building, which is approximately 297 feet in length and approximately 50 feet wide. The northern half of the Site is an asphalt parking lot (Figure 1).

The strip plaza consists of three attached buildings that are separated by a common firewall, a foundation break and different roof lines. The easternmost building (Building #1) was once occupied by the High Park Dry Cleaner and then subsequently a thrift shop, whereas the central and western buildings are subdivided into small commercial tenant spaces. The addresses for the easternmost building (Building #1) are 235 and 237 Highland Parkway (Figure 2).

### 3. SITE USE & HISTORY

Sanborn Maps of the Site from 1928 to 1964 were reviewed as part of a Preliminary Phase II Investigation that was completed in 2014. The review showed that the property was undeveloped in 1928, but by 1950 had been developed into the present plaza. There was no indication from available public information that the property was used for industrial or manufacturing purposes.

### 4. PUBLIC AND PRIVATE INFORMATION ON PREVIOUS SITE INVESTIGATIONS

Review of publicly available records for the former dry cleaner provided no information on spills or environmental investigations for the former dry cleaner. There is no record of previous site investigations at the Site except the Preliminary Phase II Site Investigation that was completed by Environmental & Geologic Management Services, LLC (EGMS) in 2014.

The site is bounded to the west by a former Getty Service Station. Review of NYSDEC records for the former service station indicates it has undergone two subsurface investigations/remedial actions: one in 1999 (Spill #889-75108) and a second in 2008 (Spill #06-06779). NYSDEC concluded from the results of the investigations that "No Further Action" was required at this location.

### 5. PRELIMINARY PHASE II INVESTIGATION

A Preliminary Phase II Investigation and Soil Vapor Intrusion Study were completed at the Site in 2014. Twelve soil borings ranging in depths from 8 to 12 feet were completed. Three groundwater sampling points (12 feet BGS) were planned; however, groundwater was only encountered at one location.

A soil vapor intrusion (SVI) Investigation was also completed at the former dry cleaner located in Building #1. Three sub-slab vapor samples were collected near boring locations with the highest PID readings. One indoor air and two outdoor air samples were also collected. Samples were analyzed for USEPA Method TO – 15 for VOCs.

### **5.1 Preliminary Phase II Investigation Conclusions**

The Preliminary Phase II Investigation and SVI Investigation concluded that there were no apparent environmental impacts from the former Getty Station.

Low levels of soil contamination are present under the floor of the building where the former dry cleaner was located as documented from seven soil samples collected from seven different soil borings completed inside of Building #1 within the area of the former dry cleaner. Soil samples were collected for laboratory analysis based on PID readings from 0 inches below the concrete floor to 8 feet below the concrete floor.

Soil contamination is also present in the service alley directly south of the former dry cleaner from spills or disposal of cleaning solvents from the former dry cleaner. The concentration of these compounds is below the NYSDEC Part 375 Commercial Soil Cleanup Objectives (SCO), but are above the restricted residential SCO for tetrachloroethene.

VOCs associated with dry cleaning operations are present in the soil vapor under the concrete floor slab of Building #1 and have impacted indoor air quality in the eastern end of Building #1 (Table 1).

Additional investigative work was recommended to determine the nature and extent of the soil contamination from the former dry cleaner and to characterize impacts to groundwater.

Remediation of indoor air was recommended by installing a sub-slab depressurization system (SSDS) in Building #1 where the former dry cleaner was located. Details of the sub-slab depressurization system are provided below under the section of this report titled Interim Remedial Measures Work Plan Scope of Work.

### 6. INTERIM REMEDIAL MEASURE

Highland Plaza received approval in February of 2016 from the NYSDEC and NYSDOH to construct and operate an interim remedial measure (IRM) consisting of a SSDS.

Implementation of the IRM started in March and was completed the third week of April, 2016.

### **6.1 General Area Condition**

The area of Building #1 where the former dry cleaner was located is approximately 120 feet wide by 50 feet deep. Highland Plaza built this area out as two tenant spaces each approximately 60 feet wide by 49 feet deep. The floor over approximately 80% of Building #1 where the former dry cleaner office space and clothes racks were located was primarily wood floor underlain by concrete. The underlying concrete in this area was in variable condition: in some areas it appeared to be in good condition; while in other areas the underlying concrete appeared to be heavily broken or absent. In the eastern portion of Building #1, the concrete was stained in places where the dry cleaning equipment was located, but was generally in good condition.

### **6.2 Interim Remedial Measures Scope of Work**

The SSDS is designed to depressurize the entire concrete slab of the easternmost plaza building (Building #1) where the former dry cleaner was located. The IRM consisted of the following work elements:

- Removal of the concrete floor where it was covered with a wooden lattice (approximately 80% of the tenant space);
- Removal of all floor drains;
- Placement of four to six inches of a crushed stone substrate in the area where the concrete was removed;
- Placement of four inch perforated horizontal PVC pipe vapor collection runs within the crushed stone for the SSDS that connected to solid vertical PVC piping to the blower units mounted on the roof of the building;
- Placement of a plastic membrane over the crushed stone substrate and pipe runs; and
- Placement of new concrete in the area of the tenant spaces where the old concrete was removed.

Approximately 32 feet by approximately 50 feet of existing concrete floor was left in place in the easternmost part of Building #1 (237 Highland Parkway). In order to install the SSDS perforated PVC pipe vapor collection run in this area, the existing concrete floor was saw-cut. The soils were excavated out of the saw-cut area to a depth of approximately 18 inches. Four-inch perforated PVC vapor collection pipe was then placed in the trench and covered with crushed stone in the saw cut area and associated excavation. The perforated pipe was attached to the solid vertical PVC pipe to connect to the roof top mounted blower. The saw-cut area was ten covered with a plastic membrane and concrete was placed into the saw-cut space of the existing concrete floor.

### **6.3 Placement of Sub-Slab Vapor Collection Points**

The SSDS has four sub-slab vapor collection points for this area as follows (Figure 3):

- The four sub-slab collection points are located approximately 25 feet from the front of the building and approximately 25 feet from the back of the building;
- The easternmost vapor collection pipe run (designated as EP-1) is located approximately 25 feet west of the east wall of Building #1 and is approximately 5 feet 9 inches in length east-west (Figures 3, 4 and 5);
- The east central vapor collection point (designated as EP-2) is located approximately 50 west of the east wall of Building #1 and is approximately 10 feet in length eastwest (Figures 3, 6 and 7);
- The west central vapor collection point (designated as EP-3) is located approximately 45 feet east of the west wall of Building #1 and is approximately 15 feet in length east-west (Figures 3, 6 and 7); and
- The westernmost vapor collection point (designated as EP-4) is located approximately 25 feet east of the west wall of Building #1 and is approximately 25 feet 6 inches in length east-west (Figures 3, 8 and 9).

All sub-slab piping for the SSDS consists of four-inch schedule 40 perforated PVC pipe and was wrapped with a permeable sleeve to prevent small rock chips from entering the piping.

### **6.4 Vertical Pipe Runs**

The sub-slab four-inch perforated schedule 40 PVC pipe for EP-1 is connected to solid four-inch schedule 40 PVC pipe that goes vertically to the roof mounted blower (Figures 4 and 5).

The sub-slab four-inch perforated schedule 40 PVC pipe for EP-2 is connected to solid to solid six-inch schedule 40 PVC pipe common to EP-2 and EP-3 that goes vertically to the roof mounted blower (Figures 6 and 7).

The sub-slab four-inch perforated schedule 40 PVC pipe for EP-3 is connected to solid to solid six-inch schedule 40 PVC pipe common to EP-2 and EP-3 that goes vertically to the roof mounted blower (Figures 6 and 7).

The sub-slab four-inch perforated schedule 40 PVC pipe for EP-4 is connected to solid four-inch schedule 40 PVC pipe that goes vertically to the roof mounted blower (Figures 8 and 9).

### **6.5 Placement of Blowers**

The SSDS has three blowers and four sub-slab vapor collection pipe runs. The three blowers are located on the roof of the building and are designated as follows:

- The easternmost blower is designated as BL-1;
- The central blower is designated as BL-2; and
- The westernmost blower is designated as BL-3.

Solid PVC piping runs vertically from the concrete floor through the drop ceiling and roof to roof mounted blowers.

Tjernlund R5HF (R-Series Radon Mitigation Fans) are mounted on the roof for vapor extraction. The Tjernlund R5HF is a moderate to high flow blower used for commercial areas (up to 2500 square feet). It has a maximum flow rate of 353 cubic feet per minute. The Tjernlund R5HF blower specifications are attached to this work plan as Appendix A.

### 6.6 System Start Up

The SSDS became operational the third week of April, 2016. The three fans were installed one at a time, tested and put into operation. This process took approximately one week to complete. The SSDS has been in continuous operation since that time.

### 6.7 Confirmation Indoor Air Sampling

Highland Plaza evaluated the effectiveness of the existing SSDS by collecting a confirmation indoor air sample in the former dry cleaner tenant space on February 16, 2017. Since the former dry cleaner tenant space has been subdivided into two tenant spaces, the confirmation indoor air sample was collected in the tenant space that is presently occupied (Buffalo Ergonomics at 235 Highland Parkway). The indoor air sample was collected using the same sample collection methods described in the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006) with updates. Sampling interval was 24 hours and the air sample was analyzed for USEPA Method TO-15 VOCs. The confirmation indoor air sampling location is shown on Figure 10.

There were no VOCs detected at concentrations above applicable NYSDOH guidance values in the indoor air sample collected to confirm the effectiveness of the SSDS to capture vapors emanating from soils under the building (Table 2).

### **6.8 Pressure Testing**

In April, 2017, pressure differential between the indoor air and sub-slab space was measured to confirm the presence of negative pressure under the concrete floor slab and the effectiveness of the SSDS to intercept and control soil vapors from entering the tenant space. Six small diameter holes (1/2 inch in diameter) were drilled through the concrete floor slab at a distance of 18 inches to three feet from the north and south exterior walls of the building to measure the pressure differential between the sub-slab and indoor air (Figure 3).

These results confirm that the SSDS is maintaining negative pressure under the concrete slab where the former dry cleaner was located (Table 3).

### **6.9 Operation and Maintenance of System**

The SSDS will remain in continuous operation until the NYSDEC or NYSDOH approves a proposal to turn off the mitigation system. NYSDEC and NYSDOH will collectively determine when/if the SSDS will be turned off.

Warning devices were installed on each vertical pipe run as part of the SSDS to signal when the system is not operational. A test port is present on each vertical pipe run. A failure indicator is in place over each the test port openings and is attached by a downward hinge to signal if the system is running. When the system is running, the suction created from the system holds the failure indicator (painted black) in place. During a system failure or decrease in suction, the failure indicator falls away from the test port opening exposing the back part of the indicator (painted yellow) and a significant "hissing noise" occurs which is audible throughout the tenant space.

Routine maintenance of the SSDS will be completed within 18 months after the system becomes operational and will occur every 12 to 18 months thereafter. Routine maintenance will also include evaluation of the slab condition, especially in the locations that were previously sealed or at areas where floor drains were decommissioned. Any new floor cracks that are observed during routine maintenance will be sealed with non-VOC caulking.

### 7. MANAGEMENT OF WASTES

Concrete and soil waste were generated during completion of the IRM. Concrete waste was generated during replacement of the concrete floor; and, soil waste was generated during installation of the horizontal vapor collection piping. These wastes were segregated and stockpiled onsite.

A composite sample was collected from the stockpiled concrete waste and from the stockpiled soil for chemical analysis to determine the appropriate methods of disposal for these wastes. The composite concrete sample was analyzed for the following parameters:

- TCLP semi-volatile organic compounds (SVOCs) using USEPA Method 8270:
- TCLP volatile organic compounds (VOCs) using USEPA Method 8260:
- TCLP RCRA metals using USEPA Method 6010; and
- TCLP mercury using USEPA Method 7470.

The results of these analyses are attached as Appendix B.

The composite soil sample was analyzed for the following parameters:

- Flash point using USEPA Method 1010;
- pH using USEPA Method 9045;
- Reactive cyanide using USEPA Method 7.3.3.2;
- Reactive Sulfide using USEPA Method 7.3.4.2;
- SVOCs using USEPA Method 8270; and
- VOCs using USEPA Method 8260.

The results of these analyses are attached as Appendix B.

The analytical results were forwarded to NYSDEC for review. The NYSDEC subsequently approved disposal of the concrete by recycling and re-use of the soil onsite for a cap over potentially contaminated soil in the 2.5 feet wide strip of soil directly behind the Site building. The NYSDEC approval correspondence is attached as Appendix C.

### 8. CERTIFICATION

This report summarizes the remedial action that was completed at 235 - 237 Highland Parkway in Highland Plaza in March, 2016.

I, Andrew Terragnoli, certify that I am currently a NYS Registered Professional Engineer, and that this Interim Remedial Measures Construction Completion Report provides an accurate summary of work activities that were completed in conformance with the NYSDEC/NYSDOH approved work plan.

Name:

Andrew Terragnoli, PE

Position: Managing Member

Studio Engineering, PLLC

Tri-Main Center

2495 Main Street, Suite 301 Buffalo, New York 14214



11/22/17 Date

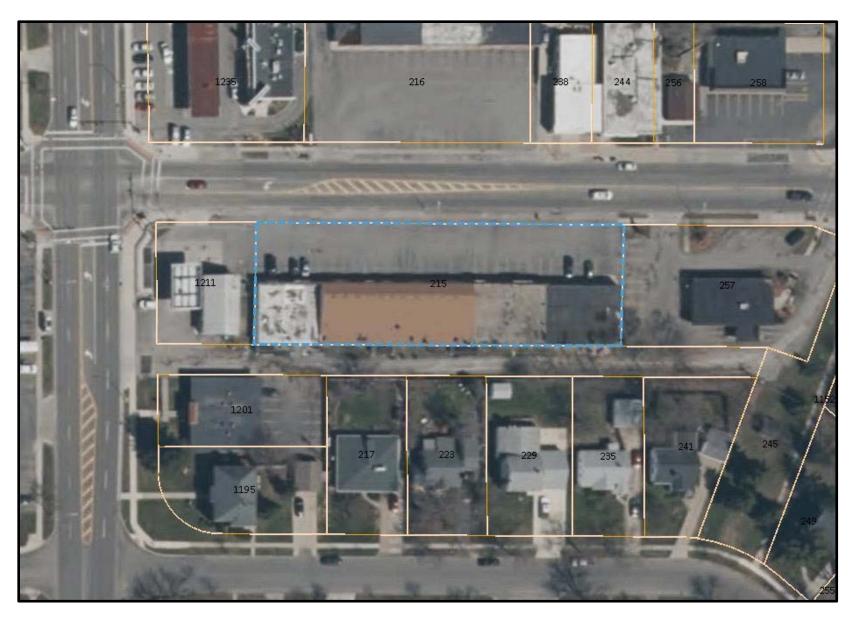
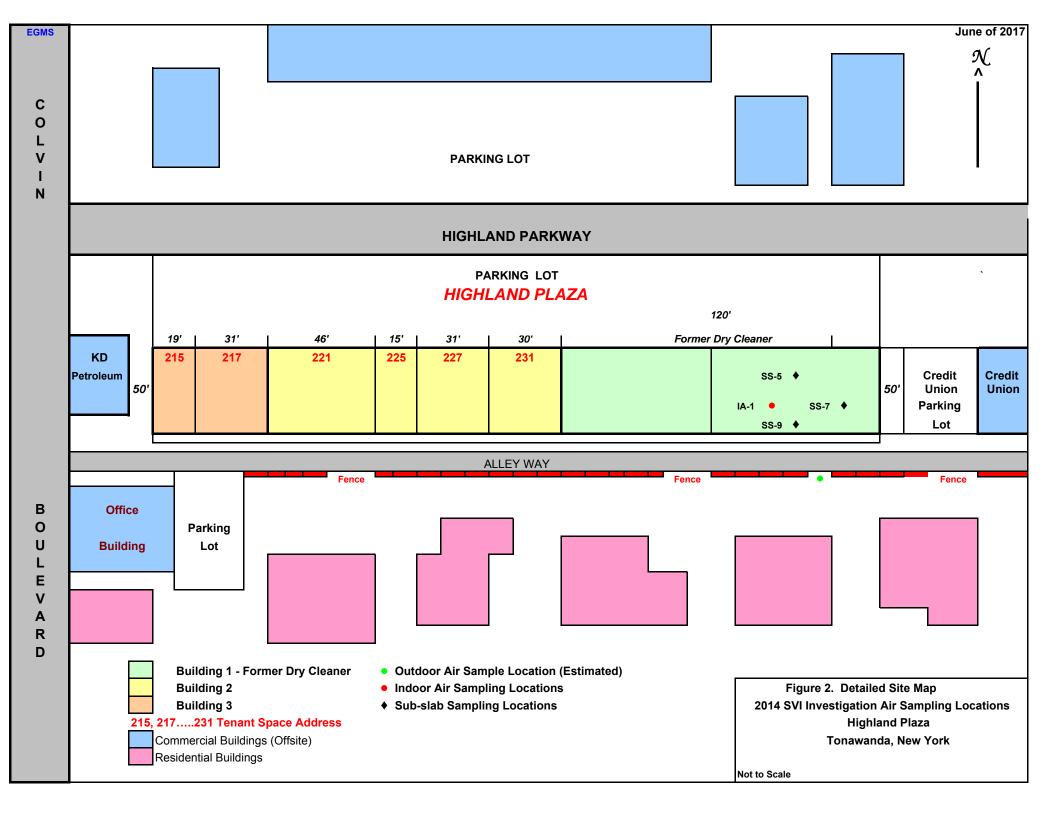
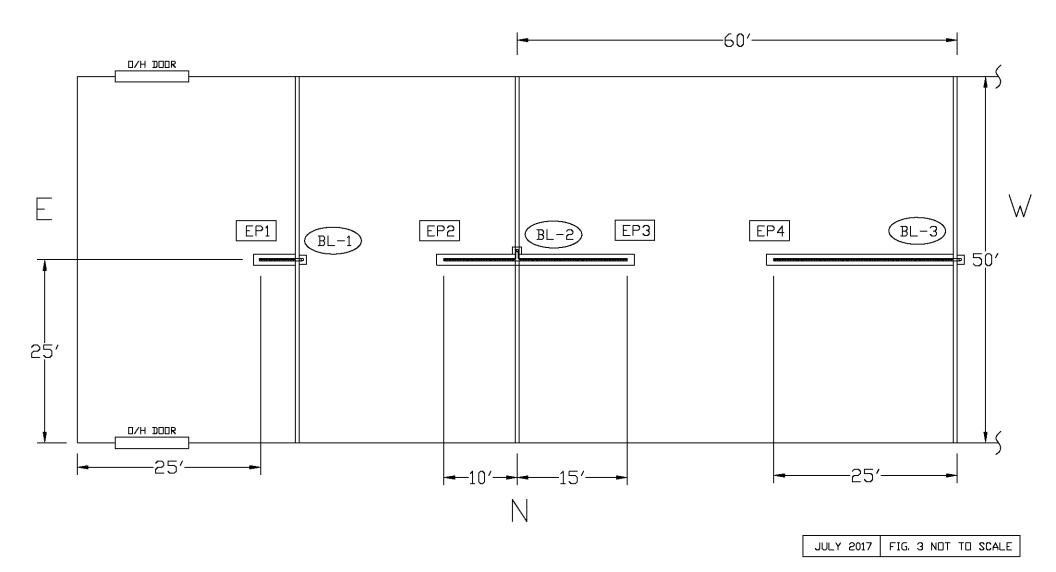
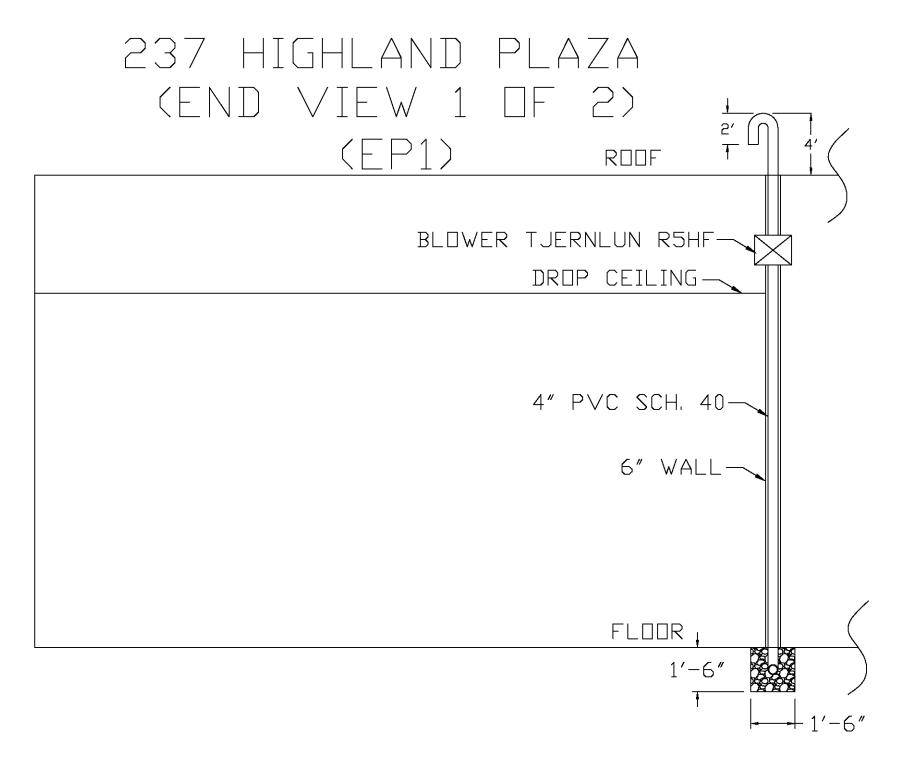


Figure 1. Location of the Highland Plaza BCP Site (Site No. C915293) in Tonawanda, Erie County, New York.



### 235-237 HIGHLAND PLAZA (PLAN VIEW)





### 237 HIGHLAND PLAZA (SIDE VIEW 2 OF 2)

(EP1)

BLOWER TJERNLUN R5HF-DROP CEILING -

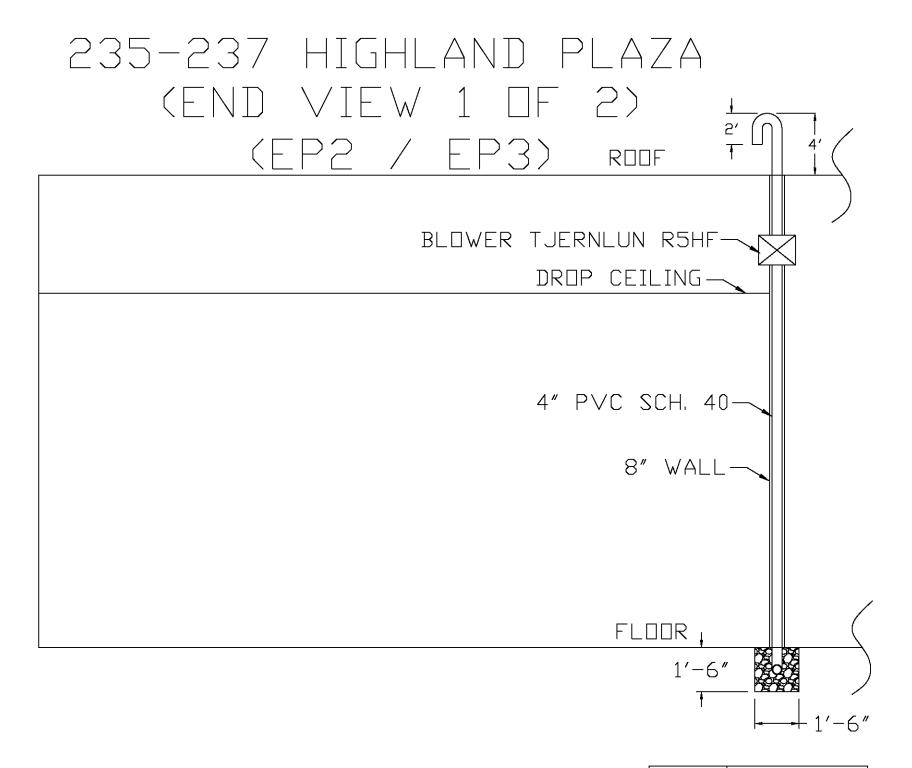
4" PVC SCH. 40-

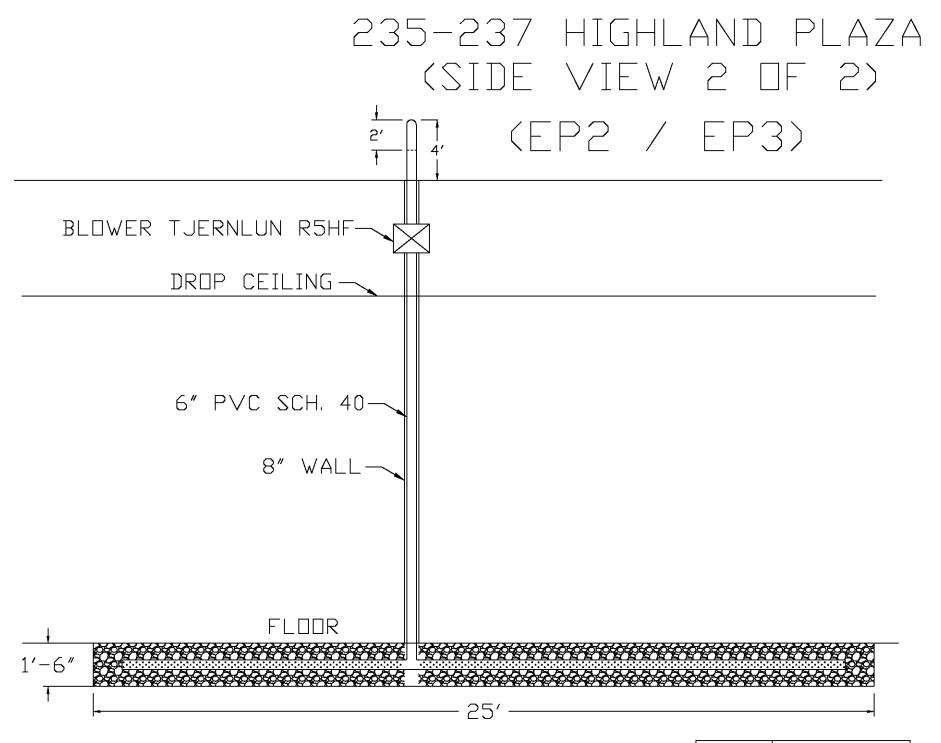
6" WALL

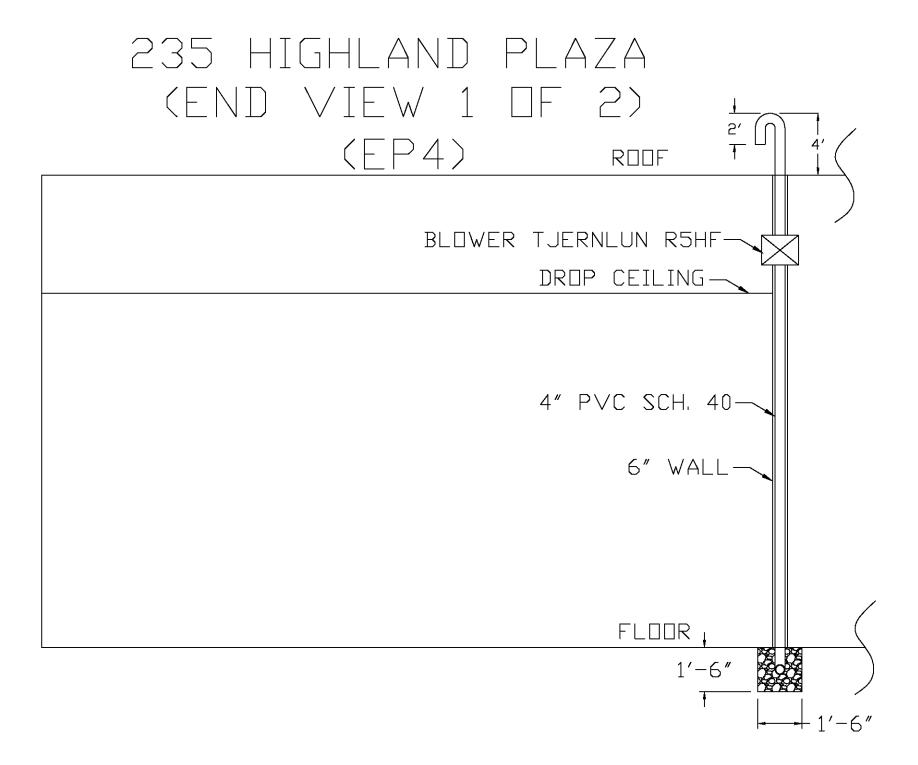
FIΠΠR

1'-6" - 5'-9" -

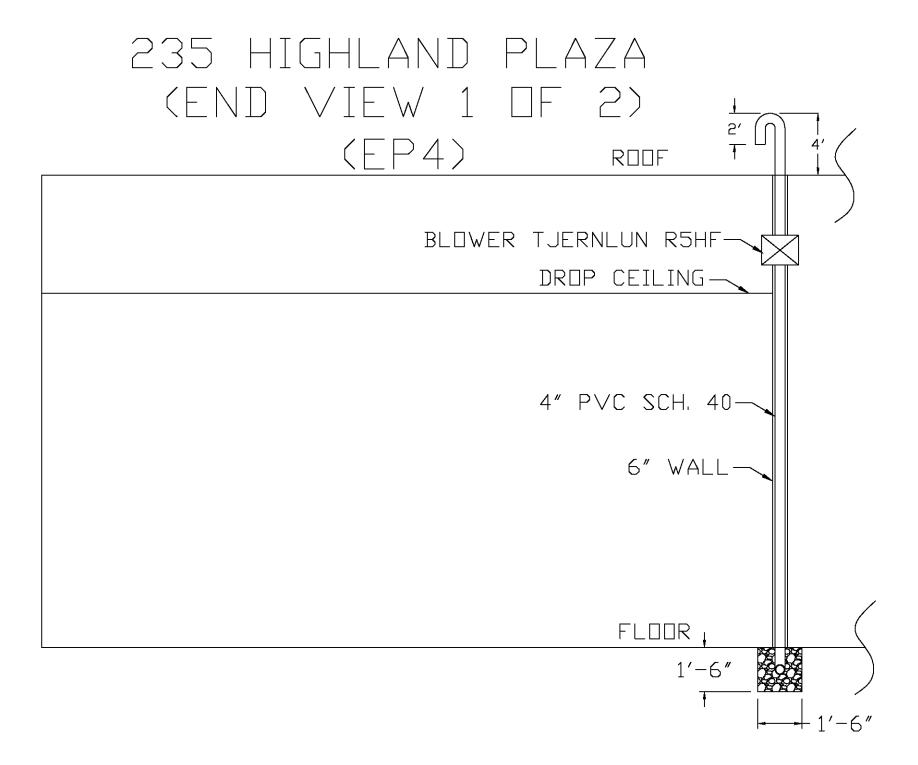
JULY 2017 | FIG. 5 NOT TO SCALE







JULY 2017 | FIG. 8 NOT TO SCALE



JULY 2017 | FIG. 8 NOT TO SCALE

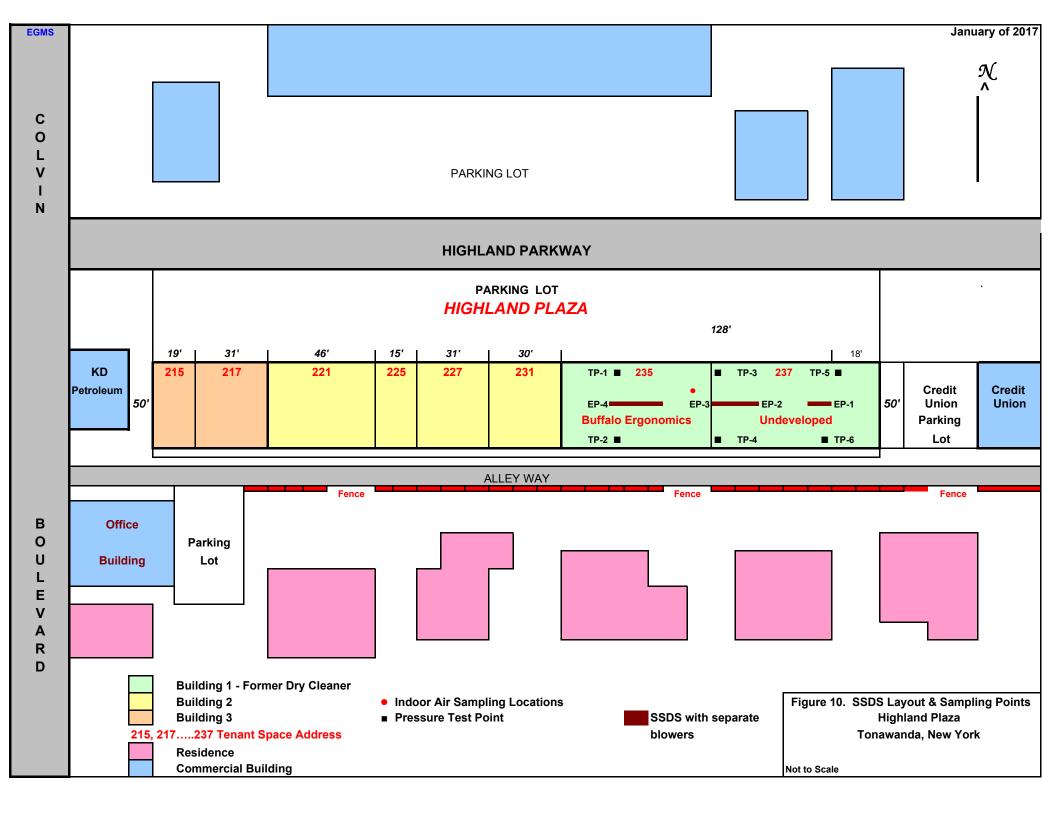
# 235 HIGHLAND PLAZA (SIDE VIEW 2 OF 2)

(EP4)

1'-6"

BLOWER TJERNLUN R5HF-DROP CEILING -4" PVC SCH. 40-6" WALL-FINNR

– 25′ -



EGMS 7/21/2017<sup>1</sup>

### TABLE 1: VOLATILE ORGANIC COMPOUNDS 2014 SOIL VAPOR INTRUSION INVESTIGATION HIGHLAND PLAZA IN TONAWANDA, NEW YORK OCTOBER, 2015

Analyte (ug/m3)	SS-5	SS-7	SS-9	INDOOR AIR	OUTDOOR AIR #1
Analyte (ug/mo)	00-3	00-1	00-3	AllX	All #1
1,1-Dichloroethene	1.7	<0.59	<0.59	<0.59	0.44
1,2,4-Trimethylbenzene	6.8	6.3	8.4	4.7	0.84
1,2-Dichloroethane	7.8	8.4	7.9	< 0.61	<0.61
1,3,5-Trimethylbenzene	3.3	3	3.6	2.4	<0.74
2,2,4-trimethylpentane	0.98	1.8	<0.70	< 0.70	<0.70
4-ethyltoluene	2.7	2.2	2.9	0.96	<0.74
Acetone	56	250	120	31	23
Benzene	2.5	2.7	2.8	0.51	0.35
Carbon disulfide	2.3	38	12	0.47	1.1
Carbon tetrachloride	0.75	0.75	< 0.94	0.75	0.63
Chloroform	12	5.2	2.1	0.68	< 0.73
Chloromethane	< 0.40	<0.31	<0.31	1.4	1.3
cis-1,2-Dichloroethene	520	31	2.1	0.95	54
Cyclohexane	4.3	9.3	11	< 0.52	< 0.52
Ethyl acetate	< 0.90	7.9	8.6	1.3	< 0.90
Ethylbenzene	2.6	3.1	2.6	1.3	< 0.65
Freon 11	1.7	2	1.8	2	1.8
Freon 113	<1.1	<1.1	<1.1	0.77	<1.1
Freon 12	3	2.9	3.2	3.7	3.5
Heptane	< 0.61	9.8	12	< 0.61	< 0.61
Hexane	< 0.53	16	20	< 0.53	0.63
Isopropyl alcohol	< 0.37	< 0.37	< 0.37	9.3	7.9
m&p-Xylene	5.5	6.9	6	3.5	1.4
Methyl Ethyl Ketone	8.6	14	14	4.4	<0.88
Methylene chloride	9.4	8.7	11	1.6	0.83
o-Xylene	2.5	2.8	2.6	1.7	0.82
Tetrachloroethylene	1600	550	74	180*	2900
Toluene	34	38	30	5.8	2.0
trans-1,2-Dichloroethene	260	41	< 0.59	< 0.59	<0.59
Trichloroethene	1200	87	11	1.8	43
Vinyl chloride	12	<0.38	<0.38	<0.10	<0.10

\* 180 Exceeds ambient air standard
Sub-slab elevated concentrations

EGMS 7/21/2017'

Table 2: VOLATILE ORGANIC COMPOUNDS DETECTED IN INDOOR & OUTDOOR AIR 2017 SSDS CONFIRMATION INDOOR AIR SAMPLING AT HIGHLAND PLAZA FEBRUARY, 2017

Compound	NYSDOH	IndoorAir 235	Outdoor Air #1
		Bflo Ergonomics	W End of Bldg
	Guidance	2/16/2017	3/9/2017
	ug/m3	ug/m3	ug/m3
1,1,1-Trichloroethane		<0.82	<0.82
1,2,4-Trimethylbenzene		<0.74	<0.74
1,3,5-Trimethylbenzene		<0.74	<0.74
2,2,4-trimethylpentane		<0.70	<0.70
4-ethyltoluene		<0.74	<0.74
Acetone		30.0	13.0
Benzene		1.3	0.61
Carbon disulfide		0.53	0.34J
Carbon tetrachloride		<0.94	0.38
Chloroform		<0.73	<0.73
Chloromethane		<0.31	1.9
Cyclohexane		0.34J	<0.52
Ethyl acetate		<0.54	<0.54
Ethylbenzene		0.52J	<0.65
Freon 11		1.1	1.5
Freon 12		2.2	2.2
Heptane		0.61	<0.61
Hexane		1.4	0.49J
Isopropyl Alcohol		83.0	0.86
m&p Xylene		1.7	0.52J
Methyl Butyl Ketone		<1.2	<1.2
Methyl Ethyl Ketone		1.4	0.62J
Methyl Isobutyl Ketone		0.49J	<1.2
Methylene chloride	60	1.1	0.73
0-Xylene		0.61J	<0.65
Styrene		<0.64	<0.64
Tetrachloroethylene	30	<1.0	<1.0
Tetrahyrdofuran		0.74	<0.44
Toluene		4.7	0.87
Trichloroethene	2	<0.21	<0.81

J: Analyte detected at or below quantitation limit

Bold is a detection of specified volatile organic compoundNot detected at or below specified quantitation limit

NYSDOH (2006) Table 3.1 and 3.2 Guidance

EGMS 7/21/2017'

## TABLE 3: IRM SUB-SLAB DEPRESSURIZATION SYSTEM PRESSURE TEST POINT SUMMARY HIGHLAND PLAZA IN TONAWANDA, NEW YORK MARCH, 2017

Test Point	Distance from North Wall	Distance from South Wall	Distance from East Wall of Bldg	Distance from West Wall of Bflo Ergonomics	Pressure
	1 -				
TP-1	~3.0'			~22'	(-) 0.005
	_				
TP-2		~1.5'		~24'	(-) 0.004
TP-3	~1.5'		~61'		(-) 0.007
TP-4		~1.5'	~59'		(-) 0.012
TP-5	~1.5'		~18'		(-) 0.007
		•			
TP-6		~1.5'	~23'		(-) 0.018
	_		_		·

# APPENDIX A SPECIFICATIONS FOR TJERLUND R5HF BLOWER



## **R-Series Radon Mitigation Fans**

## Product & System Overview



## **Description:**

The R-Series Radon Fans span a wide range of both pressure and flow performance. All feature waterproof electrical junction box covers and high quality, maintenance-free motors made by ebm-papst.

The R4B & R4BC Commercial wall hugging low profile designs are the choice for discrete, architecturally sensitive, exterior wall installations.

## **Housing Construction:**

The R-Series housings are constructed of non-yellowing, UV resistant, fiberglass reinforced polyester with a light gray finish.

The R4B & R4BC are constructed of heavy duty 20 gauge steel with white powder coat finish and stainless steel hardware.

#### Motor:

German made ebm-papst motors for quiet, efficient and high performance operation.

## Listings:

UL # E364664

## Warranty:

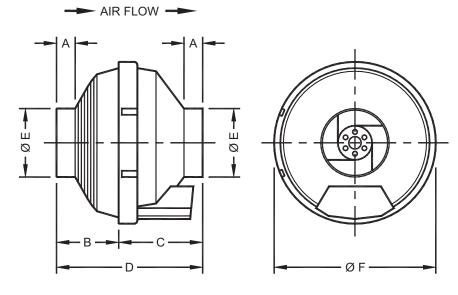
5 year full replacement

## **Optional Equipment:**

- Rubber Couplers: RC3X3", RC4X3", RC4X4", RC6X4"
- Power Cord
- Mounting Bracket



## **R-Series Dimensional Data**

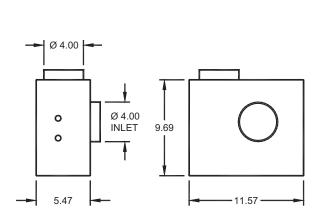


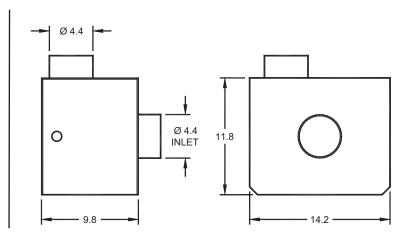
## DIMENSIONS IN INCHES

	Α	В	С	D	ØE	ØF
R3HF	1.25	3.56	5.69	9.25	3.40	12.06
R4HF	1.25	3.56	5.69	9.25	4.40	12.06
R5HF	1.25	3.56	5.69	9.25	5.88	12.06
R3LW	1.25	3.81	5.69	9.50	5.00	8.00
R5LW	1.25	3.56	5.69	9.25	5.88	12.06
R3HS	1.25	3.56	5.69	9.25	3.40	12.06
R8C	1.25	3.74	5.83	9.57	7.87	13.86

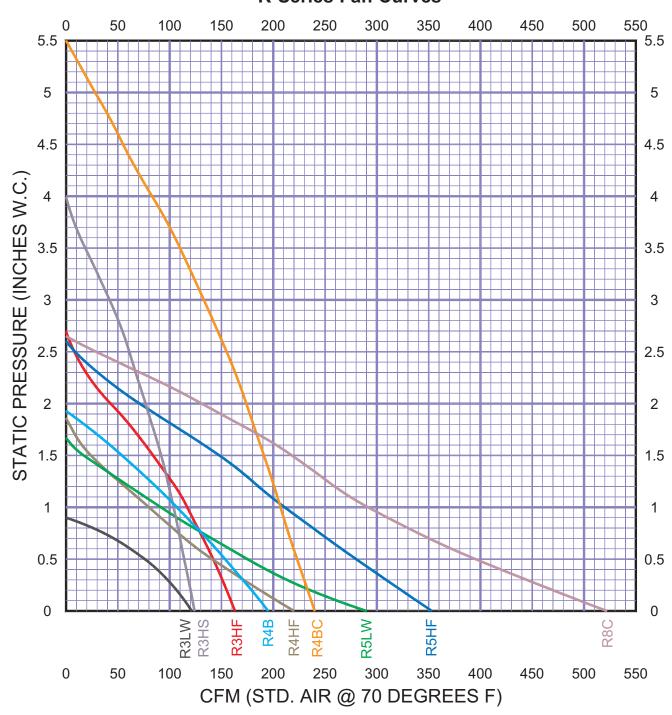
## **R4B DIMENSIONS IN INCHES**

## **R4BC DIMENSIONS IN INCHES**





## **R-Series Fan Curves**



## **R-Series Comparison**

MODEL	MAX. FLOW CU. FT. / MIN.	STATIC PRESSURE	RESULTS
R3HF	163	2.71"	Moderate Suction, Low Flow
R4HF	220	1.88"	Low Suction, Moderate Flow
R5HF	353	2.60"	Moderate Suction, Very High Flow
R3LW	121	0.90"	Low Suction, Low Flow
R5LW	294	1.75"	Low Suction, High Flow
R3HS	124	3.99"	High Suction, Low Flow
R4B	195	1.90"	Low Suction, Low to Moderate Flow
R4BC	240	5.51"	Very High Suction, Moderate Flow
R8C	520	2.65"	Moderate Suction, Extremely High Flow

## **R-Series Cross Reference**

MODEL	MAX. FLOW CU. FT. / MIN.	STATIC PRESSURE	COMPETITORS	MAX. FLOW CU. FT. / MIN.	STATIC PRESSURE
DOLLE	460	0.74"	RadonAway GP201	100	2.00"
R3HF	163	2.71"	RadonAway GP201 RadonAway GP301 RadonAway XP151 RadonAway XP201 RadonAway XP201 RadonAway XP145 Fantech FR100 Fantech HP190 Fantech HP2190 RadonAway RP265 Fantech FR160 Fantech HP220 RadonAway RP140 Fantech HP2133 RadonAway RP260 RadonAway RP260 RadonAway XR261 Fantech FR150 RadonAway GP401 RadonAway GP501 Fantech HP190SL	110	2.60"
			RadonAway XP151	170	1.60"
			RadonAway XP201	150	2.00"
R4HF	220		RadonAway XP145	173	1.70"
K4FF	220	1.00	Fantech FR100	108	0.86"
			Fantech HP190	173	1.99"
		2.60"	Fantech HP2190	163	1.93"
			RadonAway RP265	327	2.20"
R5HF	353	2.60"	Fantech FR160	289	2.32"
			Fantech HP220	345	2.46"
R3LW	121	0.00"	RadonAway RP140	134	0.80"
RSLVV	121	0.90"	Fantech HP2133	134	0.84"
			RadonAway RP260	275	1.50"
R5LW	294	1.75"	RadonAway XR261	250	1.90"
			Fantech FR150	243	1.56"
Dalle	104	2 00"	RadonAway GP401	86	3.40"
R3HS	124	3.99	RadonAway GP501	120	4.20"
R4B	195	1.90"	Fantech HP190SL	158	2.14"
R4BC	240	5.51"	NO COMPARISON		
DOC.	F20	2.71"  1.88"  2.60"  0.90"  1.75"  3.99"  1.90"  5.51"	Fantech FR225	429	2.48"
R8C	520	2.05	2.71" RadonAway GP301 RadonAway XP151 RadonAway XP201 RadonAway XP201 RadonAway XP145 Fantech FR100 Fantech HP190 Fantech HP2190 RadonAway RP265  2.60" Fantech FR160 Fantech HP220 RadonAway RP140 Fantech HP2133 RadonAway RP260 1.75" RadonAway XR261 Fantech FR150 RadonAway GP401 RadonAway GP401 RadonAway GP501 1.90" Fantech HP190SL 5.51" NO COMPARISON Fantech FR225	563	2.95"

## R-Series Application Guide

CONDITIONS	REQUIREMENTS	RECOMMENDATION
Small Footprint Very Porous Subslab	Low Suction, Low Flow	R3LW
Small Footprint Porous Subslab Submembrane	Low Suction, Low to Moderate Flow	R4HF
Small Footprint Porous Subslab Submembrane	Low Suction, Low to Moderate Flow	R4B
Medium Footprint Porous Subslab	Low Suction, Moderate to High Flow	R5LW
Medium-Large Footprint Porous Subslab	Low Suction, Moderate to High Flow	R5LW
Small-Medium Footprint Moderately Compacted Subslab	Moderate Suction, Low Flow	R3HF
Very Large Footprint Porous-SemiPorous Subslab	Moderate Suction, Very High Flow	R5HF
Very Large Footprint Porous Subslab	Moderate Suction, Extremely High Flow	R8C
Large Footprint NonPorous Subslab	High Suction, Low Flow	R3HS
Very Large Footprint Moderately Compacted Subslab	High Suction, Moderate Flow	R4BC

# APPENDIX B CONCRETE AND SOIL ANALYTICAL RESULTS



Analytical Report For

**EGMS** 

For Lab Project ID

160856

Referencing

N/A

Prepared

Wednesday, March 09, 2016

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Concrete

Lab Sample ID:160856-01Date Sampled:3/1/2016Matrix:TCLP ExtractDate Received:3/2/2016

## **TCLP Semi-Volatile Organics**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
1,4-Dichlorobenzene	< 40.0	ug/L	7500	3/4/2016 13:51
2,4,5-Trichlorophenol	< 80.0	ug/L	400000	3/4/2016 13:51
2,4,6-Trichlorophenol	< 40.0	ug/L	2000	3/4/2016 13:51
2,4-Dinitrotoluene	< 40.0	ug/L	130	3/4/2016 13:51
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000	3/4/2016 13:51
Hexachlorobenzene	< 40.0	ug/L	130	3/4/2016 13:51
Hexachlorobutadiene	< 40.0	ug/L	500	3/4/2016 13:51
Hexachloroethane	< 40.0	ug/L	3000	3/4/2016 13:51
Nitrobenzene	< 40.0	ug/L	2000	3/4/2016 13:51
Pentachlorophenol	< 80.0	ug/L	100000	3/4/2016 13:51
Pyridine	< 40.0	ug/L	5000	3/4/2016 13:51

Percent Recovery	<u>Limits</u>	<u>Outliers</u>	<b>Date Anal</b>	yzed
83.0	36.8 - 127		3/4/2016	13:51
60.7	20.3 - 108		3/4/2016	13:51
68.8	6.08 - 107		3/4/2016	13:51
75.1	48 - 101		3/4/2016	13:51
63.8	0 - 106		3/4/2016	13:51
86.5	52.7 - 113		3/4/2016	13:51
	83.0 60.7 68.8 75.1 63.8	83.036.8 - 12760.720.3 - 10868.86.08 - 10775.148 - 10163.80 - 106	83.0       36.8 - 127         60.7       20.3 - 108         68.8       6.08 - 107         75.1       48 - 101         63.8       0 - 106	83.0       36.8 - 127       3/4/2016         60.7       20.3 - 108       3/4/2016         68.8       6.08 - 107       3/4/2016         75.1       48 - 101       3/4/2016         63.8       0 - 106       3/4/2016

Method Reference(s): EPA 8270D

EPA 1311 / 3510C

Preparation Date: 3/4/2016 Data File: B10513.D

## TCLP Mercury

Analyte	Result	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
Mercury	< 0.00200	mg/L	0.2	3/4/2016 15:02

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 3/4/2016
Data File: Hg160304A

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Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Concrete

Lab Sample ID:160856-01Date Sampled:3/1/2016Matrix:TCLP ExtractDate Received:3/2/2016

## TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
Arsenic	< 0.100	mg/L	5	3/7/2016 12:59
Barium	0.622	mg/L	100	3/7/2016 12:59
Cadmium	< 0.0250	mg/L	1	3/7/2016 12:59
Chromium	< 0.0500	mg/L	5	3/7/2016 12:59
Lead	< 0.100	mg/L	5	3/7/2016 12:59
Selenium	< 0.100	mg/L	1	3/7/2016 12:59
Silver	< 0.0500	mg/L	5	3/7/2016 12:59

**Method Reference(s):** EPA 6010C

EPA 1311 / 3005A

**Preparation Date:** 3/5/2016 **Data File:** 030716a

## **TCLP Volatile Organics**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
1,1-Dichloroethene	< 20.0	ug/L	700	3/7/2016 12:56
1,2-Dichloroethane	< 20.0	ug/L	500	3/7/2016 12:56
2-Butanone	< 100	ug/L	200000	3/7/2016 12:56
Benzene	< 20.0	ug/L	500	3/7/2016 12:56
Carbon Tetrachloride	< 20.0	ug/L	500	3/7/2016 12:56
Chlorobenzene	< 20.0	ug/L	100000	3/7/2016 12:56
Chloroform	< 20.0	ug/L	6000	3/7/2016 12:56
Tetrachloroethene	< 20.0	ug/L	700	3/7/2016 12:56
Trichloroethene	< 20.0	ug/L	500	3/7/2016 12:56
Vinyl chloride	< 20.0	ug/L	200	3/7/2016 12:56



Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Concrete

Lab Sample ID:160856-01Date Sampled:3/1/2016Matrix:TCLP ExtractDate Received:3/2/2016

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Anal	yzed
1,2-Dichloroethane-d4	100	81.6 - 118		3/7/2016	12:56
4-Bromofluorobenzene	89.0	79.5 - 115		3/7/2016	12:56
Pentafluorobenzene	93.5	91.4 - 111		3/7/2016	12:56
Toluene-D8	95.1	89.8 - 108		3/7/2016	12:56

**Method Reference(s):** EPA 8260C

EPA 1311 / 5030C

Data File: x29978.D



3/8/2016

Client: <u>EGMS</u>

**Project Reference:** N/A

Sample Identifier: HP Soil

Lab Sample ID:160856-02Date Sampled:3/1/2016Matrix:SoilDate Received:3/2/2016

Flash Point

Analyte Result Units Qualifier Date Analyzed

Flash Point, Celsius >70.0 C

Method Reference(s): EPA 1010A

pН

Analyte Result Units Qualifier Date Analyzed

pH 8.22 @ 19.5 C S.U. 3/4/2016 16:20

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte Result Units Qualifier Date Analyzed

Reactivity, Cyanide <100 mg/Kg 3/8/2016

Method Reference(s):EPA 7.3.3.2Subcontractor ELAP ID:11148

ELAP does not offer this test for approval as part of their laboratory certification program.

<u>Reactive Sulfide</u>

Analyte Result Units Qualifier Date Analyzed

Reactivity, Sulfide <100 mg/Kg 3/8/2016

Method Reference(s):EPA 7.3.4.2Subcontractor ELAP ID:11148

ELAP does not offer this test for approval as part of their laboratory certification program.

## Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
1,1-Biphenyl	< 336	ug/Kg		3/7/2016 14:05
1,2,4,5-Tetrachlorobenzene	< 336	ug/Kg		3/7/2016 14:05
1,2,4-Trichlorobenzene	< 336	ug/Kg		3/7/2016 14:05
1,2-Dichlorobenzene	< 336	ug/Kg		3/7/2016 14:05
1,3-Dichlorobenzene	< 336	ug/Kg		3/7/2016 14:05
1,4-Dichlorobenzene	< 336	ug/Kg		3/7/2016 14:05
2,3,4,6-Tetrachlorophenol	< 336	ug/Kg		3/7/2016 14:05

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Page 5 of 16



Client: <u>EGMS</u>

**Project Reference:** N/A

Sample Identifier:	HP Soil				
Lab Sample ID:	160856-02		Date Sampled:	3/1/2016	
Matrix:	Soil		Date Received:	3/2/2016	
2,4,5-Trichlorophenol	< 672	ug/Kg		3/7/2016	14:
2,4,6-Trichlorophenol	< 336	ug/Kg		3/7/2016	14:
2,4-Dichlorophenol	< 336	ug/Kg		3/7/2016	14:
2,4-Dimethylphenol	< 336	ug/Kg		3/7/2016	14
2,4-Dinitrophenol	< 672	ug/Kg		3/7/2016	14
2,4-Dinitrotoluene	< 336	ug/Kg		3/7/2016	14
2,6-Dinitrotoluene	< 336	ug/Kg		3/7/2016	14
2-Chloronaphthalene	< 336	ug/Kg		3/7/2016	14
2-Chlorophenol	< 336	ug/Kg		3/7/2016	14
2-Methylnapthalene	< 336	ug/Kg		3/7/2016	14
2-Methylphenol	< 336	ug/Kg		3/7/2016	14
2-Nitroaniline	< 672	ug/Kg		3/7/2016	14
2-Nitrophenol	< 336	ug/Kg		3/7/2016	14
3&4-Methylphenol	< 336	ug/Kg		3/7/2016	14
3,3'-Dichlorobenzidine	< 336	ug/Kg		3/7/2016	14
3-Nitroaniline	< 672	ug/Kg		3/7/2016	14
4,6-Dinitro-2-methylphen	ol < 672	ug/Kg		3/7/2016	14
4-Bromophenyl phenyl etl	her < 336	ug/Kg		3/7/2016	14
4-Chloro-3-methylphenol	< 336	ug/Kg		3/7/2016	14
4-Chloroaniline	< 336	ug/Kg		3/7/2016	14
4-Chlorophenyl phenyl eth	her < 336	ug/Kg		3/7/2016	14
4-Nitroaniline	< 672	ug/Kg		3/7/2016	14
4-Nitrophenol	< 672	ug/Kg		3/7/2016	14
Acenaphthene	< 336	ug/Kg		3/7/2016	14
Acenaphthylene	< 336	ug/Kg		3/7/2016	14
Acetophenone	< 336	ug/Kg		3/7/2016	14
Anthracene	488	ug/Kg		3/7/2016	14
Atrazine	< 336	ug/Kg		3/7/2016	14
Benzaldehyde	< 336	ug/Kg		3/7/2016	14
Benzo (a) anthracene	1210	ug/Kg		3/7/2016	14
Benzo (a) pyrene	1000	ug/Kg		3/7/2016	14
Benzo (b) fluoranthene	947	ug/Kg		3/7/2016	14

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Client: <u>EGMS</u>

**Project Reference:** N/A

Sample Identifier:HP SoilLab Sample ID:160856-02Date Sampled:3/1/2016Matrix:SoilDate Received:3/2/2016

b Sample 1D:	100850-02			Date Sampieu:	3/1/2016	
atrix:	Soil			Date Received:	3/2/2016	
Benzo (g,h,i) perylen	e	593	ug/Kg		3/7/2016	14:05
Benzo (k) fluoranthe	ene	901	ug/Kg		3/7/2016	14:05
Bis (2-chloroethoxy)	methane	< 336	ug/Kg		3/7/2016	14:05
Bis (2-chloroethyl) e	ther	< 336	ug/Kg		3/7/2016	14:05
Bis (2-chloroisoprop	yl) ether	< 336	ug/Kg		3/7/2016	14:05
Bis (2-ethylhexyl) ph	ithalate	< 336	ug/Kg		3/7/2016	14:05
Butylbenzylphthalat	e	< 336	ug/Kg		3/7/2016	14:05
Caprolactam		< 336	ug/Kg		3/7/2016	14:05
Carbazole		< 336	ug/Kg		3/7/2016	14:05
Chrysene		1190	ug/Kg		3/7/2016	14:05
Dibenz (a,h) anthrac	ene	< 336	ug/Kg		3/7/2016	14:05
Dibenzofuran		< 336	ug/Kg		3/7/2016	14:05
Diethyl phthalate		< 336	ug/Kg		3/7/2016	14:05
Dimethyl phthalate		< 672	ug/Kg		3/7/2016	14:05
Di-n-butyl phthalate		< 336	ug/Kg		3/7/2016	14:05
Di-n-octylphthalate		< 336	ug/Kg		3/7/2016	14:05
Fluoranthene		2890	ug/Kg		3/7/2016	14:05
Fluorene		< 336	ug/Kg		3/7/2016	14:05
Hexachlorobenzene		< 336	ug/Kg		3/7/2016	14:05
Hexachlorobutadien	e	< 336	ug/Kg		3/7/2016	14:05
Hexachlorocyclopen	tadiene	< 336	ug/Kg		3/7/2016	14:05
Hexachloroethane		< 336	ug/Kg		3/7/2016	14:05
Indeno (1,2,3-cd) pyr	rene	755	ug/Kg		3/7/2016	14:05
Isophorone		< 336	ug/Kg		3/7/2016	14:05
Naphthalene		< 336	ug/Kg		3/7/2016	14:05
Nitrobenzene		< 336	ug/Kg		3/7/2016	14:05
N-Nitroso-di-n-propy	ylamine	< 336	ug/Kg		3/7/2016	14:05
N-Nitrosodiphenylar	nine	< 336	ug/Kg		3/7/2016	14:05
Pentachlorophenol		< 672	ug/Kg		3/7/2016	14:05
Phenanthrene		2150	ug/Kg		3/7/2016	14:05
Phenol		< 336	ug/Kg		3/7/2016	14:05
Pyrene		2180	ug/Kg		3/7/2016	14:05

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Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Soil

Lab Sample ID:160856-02Date Sampled:3/1/2016Matrix:SoilDate Received:3/2/2016

Surrogate	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	<b>Date Anal</b>	yzed
2,4,6-Tribromophenol	69.3	36.2 - 107		3/7/2016	14:05
2-Fluorobiphenyl	58.2	22 - 96.1		3/7/2016	14:05
2-Fluorophenol	52.4	14.2 - 89.8		3/7/2016	14:05
Nitrobenzene-d5	49.0	11.6 - 83.3		3/7/2016	14:05
Phenol-d5	56.0	19.4 - 102		3/7/2016	14:05
Terphenyl-d14	70.9	60.4 - 114		3/7/2016	14:05

Method Reference(s): EPA 8270D

EPA 3550C

Preparation Date: 3/7/2016 Data File: B10521.D

## **Volatile Organics**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u> <u>Dat</u>	e Analyzed
1,1,1-Trichloroethane	< 8.74	ug/Kg	3/4	/2016 13:07
1,1,2,2-Tetrachloroethane	< 8.74	ug/Kg	3/4/	/2016 13:07
1,1,2-Trichloroethane	< 8.74	ug/Kg	3/4/	/2016 13:07
1,1-Dichloroethane	< 8.74	ug/Kg	3/4	/2016 13:07
1,1-Dichloroethene	< 8.74	ug/Kg	3/4	/2016 13:07
1,2,3-Trichlorobenzene	< 21.8	ug/Kg	3/4	/2016 13:07
1,2,4-Trichlorobenzene	< 21.8	ug/Kg	3/4	/2016 13:07
1,2-Dibromo-3-Chloropropane	< 43.7	ug/Kg	3/4	/2016 13:07
1,2-Dibromoethane	< 8.74	ug/Kg	3/4	/2016 13:07
1,2-Dichlorobenzene	< 8.74	ug/Kg	3/4	/2016 13:07
1,2-Dichloroethane	< 8.74	ug/Kg	3/4,	/2016 13:07
1,2-Dichloropropane	< 8.74	ug/Kg	3/4	/2016 13:07
1,3-Dichlorobenzene	< 8.74	ug/Kg	3/4	/2016 13:07
1,4-Dichlorobenzene	< 8.74	ug/Kg	3/4	/2016 13:07
1,4-dioxane	< 87.4	ug/Kg	3/4	/2016 13:07
2-Butanone	< 43.7	ug/Kg	3/4	/2016 13:07
2-Hexanone	< 21.8	ug/Kg	3/4	/2016 13:07
4-Methyl-2-pentanone	< 21.8	ug/Kg	3/4	/2016 13:07
Acetone	< 43.7	ug/Kg	3/4	/2016 13:07

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Client: <u>EGMS</u>

**Project Reference:** N/A

Sample Identifier:	HP Soil					
Lab Sample ID:	160856-02			Date Sampled:	3/1/2016	
Matrix:	Soil			Date Received:	3/2/2016	
Benzene		< 8.74	ug/Kg		3/4/2016	13:0
Bromochloromethane		< 21.8	ug/Kg		3/4/2016	13:0
Bromodichloromethane		< 8.74	ug/Kg		3/4/2016	13:0
Bromoform		< 21.8	ug/Kg		3/4/2016	13:0
Bromomethane		< 8.74	ug/Kg		3/4/2016	13:0
Carbon disulfide		< 8.74	ug/Kg		3/4/2016	13:0
Carbon Tetrachloride		< 8.74	ug/Kg		3/4/2016	13:0
Chlorobenzene		< 8.74	ug/Kg		3/4/2016	13:0
Chloroethane		< 8.74	ug/Kg		3/4/2016	13:0
Chloroform		< 8.74	ug/Kg		3/4/2016	13:0
Chloromethane		< 8.74	ug/Kg		3/4/2016	13:0
cis-1,2-Dichloroethene		< 8.74	ug/Kg		3/4/2016	13:0
cis-1,3-Dichloropropene		< 8.74	ug/Kg		3/4/2016	13:
Cyclohexane		< 43.7	ug/Kg		3/4/2016	13:
Dibromochloromethane		< 8.74	ug/Kg		3/4/2016	13:0
Dichlorodifluoromethan	e	< 8.74	ug/Kg		3/4/2016	13:0
Ethylbenzene		< 8.74	ug/Kg		3/4/2016	13:0
Freon 113		< 8.74	ug/Kg		3/4/2016	13:0
Isopropylbenzene		< 8.74	ug/Kg		3/4/2016	13:0
m,p-Xylene		< 8.74	ug/Kg		3/4/2016	13:0
Methyl acetate		< 8.74	ug/Kg		3/4/2016	13:0
Methyl tert-butyl Ether		< 8.74	ug/Kg		3/4/2016	13:0
Methylcyclohexane		< 8.74	ug/Kg		3/4/2016	13:
Methylene chloride		< 21.8	ug/Kg		3/4/2016	13:0
o-Xylene		< 8.74	ug/Kg		3/4/2016	13:0
Styrene		< 21.8	ug/Kg		3/4/2016	13:
Tetrachloroethene		9.72	ug/Kg		3/4/2016	13:0
Toluene		< 8.74	ug/Kg		3/4/2016	13:0
trans-1,2-Dichloroethene	e	< 8.74	ug/Kg		3/4/2016	13:0
trans-1,3-Dichloroprope	ne	< 8.74	ug/Kg		3/4/2016	13:0
Trichloroethene		< 8.74	ug/Kg		3/4/2016	
Trichlorofluoromethane		< 8.74	ug/Kg		3/4/2016	

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt Page 9 of 16



Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Soil

Lab Sample ID:160856-02Date Sampled:3/1/2016Matrix:SoilDate Received:3/2/2016

Vinyl chloride	< 8.74	ug/Kg			3/4/2016	13:07
<u>Surrogate</u>	<u>Percer</u>	nt Recovery	<u>Limits</u>	<u>Outliers</u>	<b>Date Anal</b>	<u>yzed</u>
1,2-Dichloroethane-d4		110	83 - 126		3/4/2016	13:07
4-Bromofluorobenzene		86.1	80.8 - 115		3/4/2016	13:07
Pentafluorobenzene		93.1	90.6 - 111		3/4/2016	13:07
Toluene-D8		92.1	89.2 - 109		3/4/2016	13:07

**Method Reference(s):** EPA 8260C

EPA 5035A

Data File: x29963.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Soil

Lab Sample ID:160856-02ADate Sampled:3/1/2016Matrix:TCLP ExtractDate Received:3/2/2016

## **TCLP Mercury**

AnalyteResultUnitsRegulatory LimitQualifierDate AnalyzedMercury< 0.00200</td>mg/L0.23/4/201615:05

Method Reference(s): EPA 7470A

EPA 1311

Preparation Date: 3/4/2016
Data File: Hg160304A

## TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
Arsenic	< 0.100	mg/L	5	3/7/2016 13:04
Barium	1.82	mg/L	100	3/7/2016 13:04
Cadmium	< 0.0250	mg/L	1	3/7/2016 13:04
Chromium	< 0.0500	mg/L	5	3/7/2016 13:04
Lead	< 0.100	mg/L	5	3/7/2016 13:04
Selenium	< 0.100	mg/L	1	3/7/2016 13:04
Silver	< 0.0500	mg/L	5	3/7/2016 13:04

**Method Reference(s):** EPA 6010C

EPA 1311 / 3005A

**Preparation Date:** 3/5/2016 **Data File:** 030716a



## **Analytical Report Appendix**

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

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

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

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

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

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "J" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "\*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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## GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on guotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

Page 13 of 16

Report Prepared Wednesday, March 09, 2016

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

## 1662

## **CHAIN OF CUSTODY**

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## Chain of Custody Supplement

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Lab Project ID:	160856	Date:	3/2/16
	Sample Condition Per NELAC/ELAP 21	on Requirements 0/241/242/243/244	,
Condition	ELAC compliance with the sample Yes	condition requirements upon No	receipt N/A
Container Type  Comments	<u> </u>	X5035-02	
Transferred to method- compliant container			
Headspace (<1 mL) Comments			
Preservation  Comments			<b>X</b>
Chlorine Absent (<0.10 ppm per test strip) Comments			
Holding Time  Comments	<u> </u>		
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## CHAIN OF CUSTODY

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## **APPENDIX C**

## NYSDEC CONCRETE DISPOSAL & SOIL RE-USE APPROVAL CORRESPONDENCE

From: May, Glenn (DEC) [glenn.may@dec.ny.gov]

**Sent:** Tuesday, March 15, 2016 3:25 PM

To: nwohlabaugh@verizon.net

Subject: RE: Highland Plaza TCLP Results for the Waste Concrete and Soil Pile

Norm,

I have reviewed the analytical results from the soil that was excavated during installation of the sub-slab depressurization system. This soil is acceptable for reuse at the site. If possible, in the short term I would keep the soil in a pile. I envision the Decision Document containing some type of action for the areas behind the building that exceed SCOs for SVOCs, especially the AWSS-7 and AWSS-9 locations. The stockpiled soil could be used as backfill or cover over the contaminated soil.

## Glenn

**From:** Norm Wolhabaugh [mailto:nwohlabaugh@verizon.net]

Sent: Tuesday, March 15, 2016 12:53 PM

**To:** May, Glenn (DEC)

**Cc:** gcrewson@aol.com; nwohlabaugh@verizon.net

**Subject:** Highland Plaza TCLP Results for the Waste Concrete and Soil Pile

#### Glenn:

As discussed this morning, attached are the analytical results that were completed on the concrete pile and soil pile at Highland Plaza. Each is a composite sample, where I used six discrete sampling locations for the concrete pile that were mixed together; and 6 discrete sampling locations for the soil pile that were mixed together. The analyses that were completed for the concrete were recommended by Swift River Concrete Recycling. I believe Highland Plaza plans to send the concrete offsite to them or another recycler since there were no significant contaminant hits.

The analyses run on the soils are typically what are completed for landfill disposal of soils. Highland would like to keep the soils that were dug up at the site (onsite) since the only compounds that appear to be present are SVOCs in low concentrations and the VOC tetrachloroethene at a very low concentration. The soils are presently in a pile behind the building covered with plastic.

Please advise whether Highland Plaza can keep the soils onsite and how they can be used. I believe they would like to use these soils for backfill in excavated areas and to bring the property behind the building up to grade.

Thanks Glenn.

Norman K. Wohlabaugh, PG, CPG Geologist/President

**EGMS** 

(716) 445-2105 nwohlabaugh@verizon.net

# APPENDIX D NYSDEC APPROVALS OF SUBSTANTIVE TECHNICAL REQUIREMENTS

**From:** May, Glenn (DEC) [glenn.may@dec.ny.gov] **Sent:** Thursday, February 11, 2016 10:29 AM

**To:** gcrewson@aol.com

Cc: Wenskoski, Brad (HEALTH); Putzig, Bart X (DEC); nwohlabaugh@verizon.net

**Subject:** RE: Highland Plaza

**Attachments:** May Glenn.vcf

Gary,

The proposed modification to the sub-slab vapor system is acceptable. Please be advised that, to prevent re-entrainment of vapors, the point of discharge from the vents should be above the highest eave of the building, and as close to the roof ridge line as possible. Points of discharge should also be positioned ten feet or more from any windows, doors, or other opening into conditioned spaces of the structure that are less than two feet below the exhaust point.

Please feel free to contact me if you have any questions.

#### Glenn



**From:** gcrewson@aol.com [mailto:gcrewson@aol.com]

**Sent:** Friday, February 05, 2016 11:30 AM

To: May, Glenn (DEC); nwohlabaugh@verizon.net

Subject: Highland Plaza

#### Good Morning,

1. The sub slab piping and installation is well under way at the Plaza. The trenches are dug, and most of the piping is in place.

Would you be able to review this on Monday or Tuesday of next week?

- 2. In the process of rehabbing the space, it has become clear that revising the exhaust piping for the Sub Slab Vapor System to the exterior of the building has several advantages.
  - >Currently, the plan is to exhaust the system thru the back wall, then go vertical to a point above the roof line.
  - >We now would like to run the exhausts thru the roof, go up several feet and install a 180 degr. elbow and bird screen above the roof.

This revision would allow us to use less piping thereby promoting improved air flow thru the tubing for each fan. The fans would still be mounted on the exterior of the building above the roof.

We would like to proceed with revision if it ok with you. We will revise the appropriate drawings work plan as needed.

From: May, Glenn (DEC) [glenn.may@dec.ny.gov]

**Sent:** Tuesday, March 15, 2016 3:25 PM

To: nwohlabaugh@verizon.net

Subject: RE: Highland Plaza TCLP Results for the Waste Concrete and Soil Pile

Norm,

I have reviewed the analytical results from the soil that was excavated during installation of the sub-slab depressurization system. This soil is acceptable for reuse at the site. If possible, in the short term I would keep the soil in a pile. I envision the Decision Document containing some type of action for the areas behind the building that exceed SCOs for SVOCs, especially the AWSS-7 and AWSS-9 locations. The stockpiled soil could be used as backfill or cover over the contaminated soil.

#### Glenn

**From:** Norm Wolhabaugh [mailto:nwohlabaugh@verizon.net]

Sent: Tuesday, March 15, 2016 12:53 PM

**To:** May, Glenn (DEC)

**Cc:** gcrewson@aol.com; nwohlabaugh@verizon.net

**Subject:** Highland Plaza TCLP Results for the Waste Concrete and Soil Pile

#### Glenn:

As discussed this morning, attached are the analytical results that were completed on the concrete pile and soil pile at Highland Plaza. Each is a composite sample, where I used six discrete sampling locations for the concrete pile that were mixed together; and 6 discrete sampling locations for the soil pile that were mixed together. The analyses that were completed for the concrete were recommended by Swift River Concrete Recycling. I believe Highland Plaza plans to send the concrete offsite to them or another recycler since there were no significant contaminant hits.

The analyses run on the soils are typically what are completed for landfill disposal of soils. Highland would like to keep the soils that were dug up at the site (onsite) since the only compounds that appear to be present are SVOCs in low concentrations and the VOC tetrachloroethene at a very low concentration. The soils are presently in a pile behind the building covered with plastic.

Please advise whether Highland Plaza can keep the soils onsite and how they can be used. I believe they would like to use these soils for backfill in excavated areas and to bring the property behind the building up to grade.

Thanks Glenn.

Norman K. Wohlabaugh, PG, CPG Geologist/President

**EGMS** 

(716) 445-2105 nwohlabaugh@verizon.net thanks,

Gary

# APPENDIX E SOIL AND CONCRETE ANALYTICAL RESULTS



Analytical Report For

**EGMS** 

For Lab Project ID

160856

Referencing

N/A

Prepared

Wednesday, March 09, 2016

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Concrete

Lab Sample ID:160856-01Date Sampled:3/1/2016Matrix:TCLP ExtractDate Received:3/2/2016

## **TCLP Semi-Volatile Organics**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
1,4-Dichlorobenzene	< 40.0	ug/L	7500	3/4/2016 13:51
2,4,5-Trichlorophenol	< 80.0	ug/L	400000	3/4/2016 13:51
2,4,6-Trichlorophenol	< 40.0	ug/L	2000	3/4/2016 13:51
2,4-Dinitrotoluene	< 40.0	ug/L	130	3/4/2016 13:51
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000	3/4/2016 13:51
Hexachlorobenzene	< 40.0	ug/L	130	3/4/2016 13:51
Hexachlorobutadiene	< 40.0	ug/L	500	3/4/2016 13:51
Hexachloroethane	< 40.0	ug/L	3000	3/4/2016 13:51
Nitrobenzene	< 40.0	ug/L	2000	3/4/2016 13:51
Pentachlorophenol	< 80.0	ug/L	100000	3/4/2016 13:51
Pyridine	< 40.0	ug/L	5000	3/4/2016 13:51

Percent Recovery	<u>Limits</u>	<u>Outliers</u>	<b>Date Anal</b>	yzed
83.0	36.8 - 127		3/4/2016	13:51
60.7	20.3 - 108		3/4/2016	13:51
68.8	6.08 - 107		3/4/2016	13:51
75.1	48 - 101		3/4/2016	13:51
63.8	0 - 106		3/4/2016	13:51
86.5	52.7 - 113		3/4/2016	13:51
	83.0 60.7 68.8 75.1 63.8	83.036.8 - 12760.720.3 - 10868.86.08 - 10775.148 - 10163.80 - 106	83.0       36.8 - 127         60.7       20.3 - 108         68.8       6.08 - 107         75.1       48 - 101         63.8       0 - 106	83.0       36.8 - 127       3/4/2016         60.7       20.3 - 108       3/4/2016         68.8       6.08 - 107       3/4/2016         75.1       48 - 101       3/4/2016         63.8       0 - 106       3/4/2016

Method Reference(s): EPA 8270D

EPA 1311 / 3510C

Preparation Date: 3/4/2016 Data File: B10513.D

## TCLP Mercury

Analyte	Result	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
Mercury	< 0.00200	mg/L	0.2	3/4/2016 15:02

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 3/4/2016
Data File: Hg160304A

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Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Concrete

Lab Sample ID:160856-01Date Sampled:3/1/2016Matrix:TCLP ExtractDate Received:3/2/2016

## TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
Arsenic	< 0.100	mg/L	5	3/7/2016 12:59
Barium	0.622	mg/L	100	3/7/2016 12:59
Cadmium	< 0.0250	mg/L	1	3/7/2016 12:59
Chromium	< 0.0500	mg/L	5	3/7/2016 12:59
Lead	< 0.100	mg/L	5	3/7/2016 12:59
Selenium	< 0.100	mg/L	1	3/7/2016 12:59
Silver	< 0.0500	mg/L	5	3/7/2016 12:59

**Method Reference(s):** EPA 6010C

EPA 1311 / 3005A

**Preparation Date:** 3/5/2016 **Data File:** 030716a

## **TCLP Volatile Organics**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
1,1-Dichloroethene	< 20.0	ug/L	700	3/7/2016 12:56
1,2-Dichloroethane	< 20.0	ug/L	500	3/7/2016 12:56
2-Butanone	< 100	ug/L	200000	3/7/2016 12:56
Benzene	< 20.0	ug/L	500	3/7/2016 12:56
Carbon Tetrachloride	< 20.0	ug/L	500	3/7/2016 12:56
Chlorobenzene	< 20.0	ug/L	100000	3/7/2016 12:56
Chloroform	< 20.0	ug/L	6000	3/7/2016 12:56
Tetrachloroethene	< 20.0	ug/L	700	3/7/2016 12:56
Trichloroethene	< 20.0	ug/L	500	3/7/2016 12:56
Vinyl chloride	< 20.0	ug/L	200	3/7/2016 12:56



Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Concrete

Lab Sample ID:160856-01Date Sampled:3/1/2016Matrix:TCLP ExtractDate Received:3/2/2016

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Anal	yzed
1,2-Dichloroethane-d4	100	81.6 - 118		3/7/2016	12:56
4-Bromofluorobenzene	89.0	79.5 - 115		3/7/2016	12:56
Pentafluorobenzene	93.5	91.4 - 111		3/7/2016	12:56
Toluene-D8	95.1	89.8 - 108		3/7/2016	12:56

**Method Reference(s):** EPA 8260C

EPA 1311 / 5030C

Data File: x29978.D



3/8/2016

Client: <u>EGMS</u>

**Project Reference:** N/A

Sample Identifier: HP Soil

Lab Sample ID:160856-02Date Sampled:3/1/2016Matrix:SoilDate Received:3/2/2016

Flash Point

Analyte Result Units Qualifier Date Analyzed

Flash Point, Celsius >70.0 C

Method Reference(s): EPA 1010A

pН

Analyte Result Units Qualifier Date Analyzed

pH 8.22 @ 19.5 C S.U. 3/4/2016 16:20

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte Result Units Qualifier Date Analyzed

Reactivity, Cyanide <100 mg/Kg 3/8/2016

Method Reference(s):EPA 7.3.3.2Subcontractor ELAP ID:11148

ELAP does not offer this test for approval as part of their laboratory certification program.

<u>Reactive Sulfide</u>

Analyte Result Units Qualifier Date Analyzed

Reactivity, Sulfide <100 mg/Kg 3/8/2016

Method Reference(s):EPA 7.3.4.2Subcontractor ELAP ID:11148

ELAP does not offer this test for approval as part of their laboratory certification program.

## Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
1,1-Biphenyl	< 336	ug/Kg		3/7/2016 14:05
1,2,4,5-Tetrachlorobenzene	< 336	ug/Kg		3/7/2016 14:05
1,2,4-Trichlorobenzene	< 336	ug/Kg		3/7/2016 14:05
1,2-Dichlorobenzene	< 336	ug/Kg		3/7/2016 14:05
1,3-Dichlorobenzene	< 336	ug/Kg		3/7/2016 14:05
1,4-Dichlorobenzene	< 336	ug/Kg		3/7/2016 14:05
2,3,4,6-Tetrachlorophenol	< 336	ug/Kg		3/7/2016 14:05

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Page 5 of 16



Client: <u>EGMS</u>

**Project Reference:** N/A

Sample Identifier:	HP Soil				
Lab Sample ID:	160856-02		Date Sampled:	3/1/2016	
Matrix:	Soil		Date Received:	3/2/2016	
2,4,5-Trichlorophenol	< 672	ug/Kg		3/7/2016 1	14:
2,4,6-Trichlorophenol	< 336	ug/Kg		3/7/2016 1	14:
2,4-Dichlorophenol	< 336	ug/Kg		3/7/2016 1	14
2,4-Dimethylphenol	< 336	ug/Kg		3/7/2016 1	14
2,4-Dinitrophenol	< 672	ug/Kg		3/7/2016 1	14
2,4-Dinitrotoluene	< 336	ug/Kg		3/7/2016 1	14
2,6-Dinitrotoluene	< 336	ug/Kg		3/7/2016 1	14
2-Chloronaphthalene	< 336	ug/Kg		3/7/2016 1	14
2-Chlorophenol	< 336	ug/Kg		3/7/2016 1	14
2-Methylnapthalene	< 336	ug/Kg		3/7/2016 1	14
2-Methylphenol	< 336	ug/Kg		3/7/2016 1	14
2-Nitroaniline	< 672	ug/Kg		3/7/2016 1	14
2-Nitrophenol	< 336	ug/Kg		3/7/2016 1	14
3&4-Methylphenol	< 336	ug/Kg		3/7/2016 1	14
3,3'-Dichlorobenzidine	< 336	ug/Kg		3/7/2016 1	14
3-Nitroaniline	< 672	ug/Kg		3/7/2016 1	14
4,6-Dinitro-2-methylphen	ol < 672	ug/Kg		3/7/2016 1	14
4-Bromophenyl phenyl etl	her < 336	ug/Kg		3/7/2016 1	14
4-Chloro-3-methylphenol	< 336	ug/Kg		3/7/2016 1	14
4-Chloroaniline	< 336	ug/Kg		3/7/2016 1	14
4-Chlorophenyl phenyl eth	her < 336	ug/Kg		3/7/2016 1	14
4-Nitroaniline	< 672	ug/Kg		3/7/2016 1	14
4-Nitrophenol	< 672	ug/Kg		3/7/2016 1	14
Acenaphthene	< 336	ug/Kg		3/7/2016 1	14
Acenaphthylene	< 336	ug/Kg		3/7/2016 1	14
Acetophenone	< 336	ug/Kg		3/7/2016 1	14
Anthracene	488	ug/Kg		3/7/2016 1	14
Atrazine	< 336	ug/Kg		3/7/2016 1	14
Benzaldehyde	< 336	ug/Kg		3/7/2016 1	14
Benzo (a) anthracene	1210	ug/Kg		3/7/2016 1	14
Benzo (a) pyrene	1000	ug/Kg		3/7/2016 1	14
Benzo (b) fluoranthene	947	ug/Kg		3/7/2016 1	14

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Client: <u>EGMS</u>

**Project Reference:** N/A

Sample Identifier:HP SoilLab Sample ID:160856-02Date Sampled:3/1/2016Matrix:SoilDate Received:3/2/2016

b Sample 1D:	100850-02			Date Sampieu:	3/1/2016	
atrix:	Soil			Date Received:	3/2/2016	
Benzo (g,h,i) peryler	ie	593	ug/Kg		3/7/2016	14:05
Benzo (k) fluoranthe	ene	901	ug/Kg		3/7/2016	14:05
Bis (2-chloroethoxy)	) methane	< 336	ug/Kg		3/7/2016	14:05
Bis (2-chloroethyl) e	ether	< 336	ug/Kg		3/7/2016	14:05
Bis (2-chloroisoprop	oyl) ether	< 336	ug/Kg		3/7/2016	14:05
Bis (2-ethylhexyl) pl	nthalate	< 336	ug/Kg		3/7/2016	14:05
Butylbenzylphthalat	e	< 336	ug/Kg		3/7/2016	14:05
Caprolactam		< 336	ug/Kg		3/7/2016	14:05
Carbazole		< 336	ug/Kg		3/7/2016	14:05
Chrysene		1190	ug/Kg		3/7/2016	14:05
Dibenz (a,h) anthrac	ene	< 336	ug/Kg		3/7/2016	14:05
Dibenzofuran		< 336	ug/Kg		3/7/2016	14:05
Diethyl phthalate		< 336	ug/Kg		3/7/2016	14:05
Dimethyl phthalate		< 672	ug/Kg		3/7/2016	14:05
Di-n-butyl phthalate		< 336	ug/Kg		3/7/2016	14:05
Di-n-octylphthalate		< 336	ug/Kg		3/7/2016	14:05
Fluoranthene		2890	ug/Kg		3/7/2016	14:05
Fluorene		< 336	ug/Kg		3/7/2016	14:05
Hexachlorobenzene		< 336	ug/Kg		3/7/2016	14:05
Hexachlorobutadien	e	< 336	ug/Kg		3/7/2016	14:05
Hexachlorocyclopen	tadiene	< 336	ug/Kg		3/7/2016	14:05
Hexachloroethane		< 336	ug/Kg		3/7/2016	14:05
Indeno (1,2,3-cd) py	rene	755	ug/Kg		3/7/2016	14:05
Isophorone		< 336	ug/Kg		3/7/2016	14:05
Naphthalene		< 336	ug/Kg		3/7/2016	14:05
Nitrobenzene		< 336	ug/Kg		3/7/2016	14:05
N-Nitroso-di-n-prop	ylamine	< 336	ug/Kg		3/7/2016	14:05
N-Nitrosodiphenylai	mine	< 336	ug/Kg		3/7/2016	14:05
Pentachlorophenol		< 672	ug/Kg		3/7/2016	14:05
Phenanthrene		2150	ug/Kg		3/7/2016	14:05
Phenol		< 336	ug/Kg		3/7/2016	14:05
Pyrene		2180	ug/Kg		3/7/2016	14:05

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Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Soil

Lab Sample ID:160856-02Date Sampled:3/1/2016Matrix:SoilDate Received:3/2/2016

Surrogate	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	<b>Date Anal</b>	yzed
2,4,6-Tribromophenol	69.3	36.2 - 107		3/7/2016	14:05
2-Fluorobiphenyl	58.2	22 - 96.1		3/7/2016	14:05
2-Fluorophenol	52.4	14.2 - 89.8		3/7/2016	14:05
Nitrobenzene-d5	49.0	11.6 - 83.3		3/7/2016	14:05
Phenol-d5	56.0	19.4 - 102		3/7/2016	14:05
Terphenyl-d14	70.9	60.4 - 114		3/7/2016	14:05

Method Reference(s): EPA 8270D

EPA 3550C

Preparation Date: 3/7/2016 Data File: B10521.D

## **Volatile Organics**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u> <u>Dat</u>	<u>e Analyzed</u>
1,1,1-Trichloroethane	< 8.74	ug/Kg	3/4	/2016 13:07
1,1,2,2-Tetrachloroethane	< 8.74	ug/Kg	3/4	/2016 13:07
1,1,2-Trichloroethane	< 8.74	ug/Kg	3/4	/2016 13:07
1,1-Dichloroethane	< 8.74	ug/Kg	3/4	/2016 13:07
1,1-Dichloroethene	< 8.74	ug/Kg	3/4	/2016 13:07
1,2,3-Trichlorobenzene	< 21.8	ug/Kg	3/4	/2016 13:07
1,2,4-Trichlorobenzene	< 21.8	ug/Kg	3/4	/2016 13:07
1,2-Dibromo-3-Chloropropane	< 43.7	ug/Kg	3/4	/2016 13:07
1,2-Dibromoethane	< 8.74	ug/Kg	3/4	/2016 13:07
1,2-Dichlorobenzene	< 8.74	ug/Kg	3/4	/2016 13:07
1,2-Dichloroethane	< 8.74	ug/Kg	3/4	/2016 13:07
1,2-Dichloropropane	< 8.74	ug/Kg	3/4	/2016 13:07
1,3-Dichlorobenzene	< 8.74	ug/Kg	3/4	/2016 13:07
1,4-Dichlorobenzene	< 8.74	ug/Kg	3/4	/2016 13:07
1,4-dioxane	< 87.4	ug/Kg	3/4	/2016 13:07
2-Butanone	< 43.7	ug/Kg	3/4	/2016 13:07
2-Hexanone	< 21.8	ug/Kg	3/4	/2016 13:07
4-Methyl-2-pentanone	< 21.8	ug/Kg	3/4	/2016 13:07
Acetone	< 43.7	ug/Kg	3/4	/2016 13:07

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**Lab Project ID:** 160856

Client: <u>EGMS</u>

**Project Reference:** N/A

Sample Identifier:	HP Soil					
Lab Sample ID:	160856-02			Date Sampled:	3/1/2016	
Matrix:	Soil			Date Received:	3/2/2016	
Benzene		< 8.74	ug/Kg		3/4/2016	13:0
Bromochloromethane		< 21.8	ug/Kg		3/4/2016	13:0
Bromodichloromethane		< 8.74	ug/Kg		3/4/2016	13:0
Bromoform		< 21.8	ug/Kg		3/4/2016	13:0
Bromomethane		< 8.74	ug/Kg		3/4/2016	13:0
Carbon disulfide		< 8.74	ug/Kg		3/4/2016	13:0
Carbon Tetrachloride		< 8.74	ug/Kg		3/4/2016	13:0
Chlorobenzene		< 8.74	ug/Kg		3/4/2016	13:0
Chloroethane		< 8.74	ug/Kg		3/4/2016	13:0
Chloroform		< 8.74	ug/Kg		3/4/2016	13:0
Chloromethane		< 8.74	ug/Kg		3/4/2016	13:0
cis-1,2-Dichloroethene		< 8.74	ug/Kg		3/4/2016	13:0
cis-1,3-Dichloropropene		< 8.74	ug/Kg		3/4/2016	13:
Cyclohexane		< 43.7	ug/Kg		3/4/2016	13:
Dibromochloromethane		< 8.74	ug/Kg		3/4/2016	13:0
Dichlorodifluoromethan	e	< 8.74	ug/Kg		3/4/2016	13:0
Ethylbenzene		< 8.74	ug/Kg		3/4/2016	13:0
Freon 113		< 8.74	ug/Kg		3/4/2016	13:0
Isopropylbenzene		< 8.74	ug/Kg		3/4/2016	13:0
m,p-Xylene		< 8.74	ug/Kg		3/4/2016	13:0
Methyl acetate		< 8.74	ug/Kg		3/4/2016	13:0
Methyl tert-butyl Ether		< 8.74	ug/Kg		3/4/2016	13:0
Methylcyclohexane		< 8.74	ug/Kg		3/4/2016	13:
Methylene chloride		< 21.8	ug/Kg		3/4/2016	13:0
o-Xylene		< 8.74	ug/Kg		3/4/2016	13:0
Styrene		< 21.8	ug/Kg		3/4/2016	13:
Tetrachloroethene		9.72	ug/Kg		3/4/2016	13:0
Toluene		< 8.74	ug/Kg		3/4/2016	13:0
trans-1,2-Dichloroethene	e	< 8.74	ug/Kg		3/4/2016	13:0
trans-1,3-Dichloroprope	ne	< 8.74	ug/Kg		3/4/2016	13:0
Trichloroethene		< 8.74	ug/Kg		3/4/2016	
Trichlorofluoromethane		< 8.74	ug/Kg		3/4/2016	

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**Lab Project ID:** 160856

Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Soil

 Lab Sample ID:
 160856-02
 Date Sampled:
 3/1/2016

 Matrix:
 Soil
 Date Received:
 3/2/2016

Vinyl chloride	< 8.74	ug/Kg			3/4/2016	13:07
<u>Surrogate</u>	Percent	t Recovery	<u>Limits</u>	<u>Outliers</u>	<b>Date Anal</b>	<u>yzed</u>
1,2-Dichloroethane-d4	1	110	83 - 126		3/4/2016	13:07
4-Bromofluorobenzene	8	86.1	80.8 - 115		3/4/2016	13:07
Pentafluorobenzene	9	3.1	90.6 - 111		3/4/2016	13:07
Toluene-D8	9	2.1	89.2 - 109		3/4/2016	13:07

Method Reference(s): EPA 8260C

EPA 5035A

Data File: x29963.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Lab Project ID: 160856

Client: <u>EGMS</u>

**Project Reference:** N/A

**Sample Identifier:** HP Soil

Lab Sample ID:160856-02ADate Sampled:3/1/2016Matrix:TCLP ExtractDate Received:3/2/2016

### **TCLP Mercury**

AnalyteResultUnitsRegulatory LimitQualifierDate AnalyzedMercury< 0.00200</td>mg/L0.23/4/201615:05

Method Reference(s): EPA 7470A

EPA 1311

Preparation Date: 3/4/2016
Data File: Hg160304A

### TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
Arsenic	< 0.100	mg/L	5	3/7/2016 13:04
Barium	1.82	mg/L	100	3/7/2016 13:04
Cadmium	< 0.0250	mg/L	1	3/7/2016 13:04
Chromium	< 0.0500	mg/L	5	3/7/2016 13:04
Lead	< 0.100	mg/L	5	3/7/2016 13:04
Selenium	< 0.100	mg/L	1	3/7/2016 13:04
Silver	< 0.0500	mg/L	5	3/7/2016 13:04

**Method Reference(s):** EPA 6010C

EPA 1311 / 3005A

**Preparation Date:** 3/5/2016 **Data File:** 030716a



## **Analytical Report Appendix**

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

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

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

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

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

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "J" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "\*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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

Page 12 of 16

### GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on guotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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

Page 13 of 16

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

# 1662

## **CHAIN OF CUSTODY**

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# Chain of Custody Supplement

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Condition	ELAC compliance with the sample Yes	condition requirements upon No	receipt N/A
Container Type  Comments	<u> </u>	X5035-02	
Transferred to method- compliant container			
Headspace (<1 mL) Comments			
Preservation  Comments			<b>X</b>
Chlorine Absent (<0.10 ppm per test strip) Comments			
Holding Time  Comments	<u> </u>		
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### CHAIN OF CUSTODY

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THE LEADER IN ENVIRONMENTAL TESTING

### **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

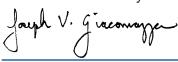
TestAmerica Job ID: 480-117313-1

Client Project/Site: Highland Plaza - OffSite C915293A

#### For:

New York State D.E.C. 270 Michigan Avenue Buffalo, New York 14203

Attn: Mr. Glenn May



Authorized for release by: 5/17/2017 4:41:22 PM

Joe Giacomazza, Project Management Assistant II joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

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Review your project results through
Total Access

**Have a Question?** 



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Project/Site: Highland Plaza - OffSite C915293A

TestAmerica Job ID: 480-117313-1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data

contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Joseph V. Gireonoger

Joe Giacomazza

Project Management Assistant II

5/17/2017 4:41:22 PM

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### **Definitions/Glossary**

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

TestAmerica Job ID: 480-117313-1

#### **Qualifiers**

#### **GC/MS VOA**

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

#### **GC/MS Semi VOA**

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

#### GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
В	Compound was found in the blank and sample.
LCMS	

#### LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
В	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
Metals	

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

These commonly used abbreviations may or may not be present in this report.

### **Glossary** Abbreviation

¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

TestAmerica Buffalo

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### **Definitions/Glossary**

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

TestAmerica Job ID: 480-117313-1

### **Glossary (Continued)**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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#### **Case Narrative**

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Job ID: 480-117313-1

**Laboratory: TestAmerica Buffalo** 

**Narrative** 

Job Narrative 480-117313-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/2/2017 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

#### **GC/MS VOA**

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 460-436621 recovered outside control limits for the following analyte: Chloromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was greater than 2 and the following samples were analyzed after 7 days from sampling: SS-1 (480-117313-1), SS-2 (480-117313-2), SS-3 (480-117313-3), SS-4 (480-117313-4), SS-5 (480-117313-5), SS-6 (480-117313-6), SS-8 (480-117313-8), SS-9 (480-117313-9), SS-10 (480-117313-10), SS-11 (480-117313-11), SS-12 (480-117313-12), SS-13 (480-117313-14), SS-15 (480-117313-15) and SS-DUP1 (480-117313-16).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 436949 recovered above the upper control limit for Dichlorodifluoromethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 436949 recovered outside control limits for the following analyte: Acetone. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The following samples required a dilution due to the sample extracts having an oily matrix: SS-1 (480-117313-1) and SS-2 (480-117313-2). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The following samples required a dilution due to the nature of the sample matrix: SS-1 (480-117313-1) and SS-2 (480-117313-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-356026 recovered above the upper control limit for 2,4-Dinitrophenol, 4-Nitrophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SS-1 (480-117313-1), SS-2 (480-117313-2) and SS-7 (480-117313-7).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-356026 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. SS-1 (480-117313-1), SS-2 (480-117313-2) and SS-7 (480-117313-7).

Method(s) 8270D: The following samples were diluted due to appearance and viscosity: SS-7 (480-117313-7), SS-7 (480-117313-7[MS]) and SS-7 (480-117313-7[MSD]). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-356013 recovered above the upper control limit for 2,4-Dinitrophenol, 4-Nitrophenol, and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected

TestAmerica Job ID: 480-117313-1

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#### **Case Narrative**

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

TestAmerica Job ID: 480-117313-1

### Job ID: 480-117313-1 (Continued)

#### Laboratory: TestAmerica Buffalo (Continued)

analytes; therefore, the data have been reported. The following samples are impacted: SS-3 (480-117313-3), SS-4 (480-117313-4), SS-5 (480-117313-5), SS-6 (480-117313-6), SS-8 (480-117313-8), SS-9 (480-117313-9), SS-11 (480-117313-11), SS-14 (480-117313-14), SS-15 (480-117313-15) and SS-DUP1 (480-117313-16).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-356013 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. SS-3 (480-117313-3), SS-4 (480-117313-4), SS-5 (480-117313-5), SS-6 (480-117313-6), SS-8 (480-117313-8), SS-9 (480-117313-9), SS-11 (480-117313-11), SS-14 (480-117313-14), SS-15 (480-117313-15) and SS-DUP1 (480-117313-16).

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 480-356013 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. SS-3 (480-117313-3), SS-4 (480-117313-4), SS-5 (480-117313-5), SS-6 (480-117313-6), SS-8 (480-117313-8), SS-9 (480-117313-9), SS-11 (480-117313-11), SS-14 (480-117313-14), SS-15 (480-117313-15) and SS-DUP1 (480-117313-16).

Method(s) 8270D: The following sample required a dilution due to appearance and viscosity: SS-6 (480-117313-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The following sample was diluted due to appearance and viscosity: SS-14 (480-117313-14) and SS-15 (480-117313-15). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples was diluted due to appearance and viscosity: SS-3 (480-117313-3), SS-4 (480-117313-4), SS-5 (480-117313-5), SS-6 (480-117313-6), SS-8 (480-117313-8), SS-9 (480-117313-9), SS-11 (480-117313-11), SS-14 (480-117313-14), SS-15 (480-117313-15) and SS-DUP1 (480-117313-16). Elevated reporting limits (RL) are provided.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SS-DUP1 (480-117313-16). These results have been reported and qualified.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SS-13 (480-117313-13). These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-356784 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. SS-10 (480-117313-10), SS-12 (480-117313-12) and SS-13 (480-117313-13).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-356784 recovered above the upper control limit for 2,4-Dinitrophenol, 4-Nitrophenol, Hexachlorobutadiene and Hexachlorocyclopentadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SS-10 (480-117313-10), SS-12 (480-117313-12) and SS-13 (480-117313-13).

Method(s) 8270D: The following samples were diluted due to appearance and viscosity: SS-10 (480-117313-10), SS-12 (480-117313-12) and SS-13 (480-117313-13). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 480-356784 was outside the method criteria for the following analyte: 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. SS-10 (480-117313-10), SS-12 (480-117313-12) and SS-13 (480-117313-13).

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#### **Case Narrative**

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

TestAmerica Job ID: 480-117313-1

### Job ID: 480-117313-1 (Continued)

#### Laboratory: TestAmerica Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method(s) 8082A: All primary data for analytical batch 355506 is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8081B: The following samples were diluted due to the nature of the sample matrix: SS-1 (480-117313-1), SS-2 (480-117313-2), SS-3 (480-117313-3), SS-12 (480-117313-12), SS-13 (480-117313-13), SS-14 (480-117313-14) and SS-15 (480-117313-15). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method(s) 8081B: All primary data for analytical batch 355726 is reported from the RTX-CLPI column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010C: The Serial Dilution (480-117313-C-7-J SD) in batch 480-356432, exhibited results outside the quality control limits for Total Calcium and Chromium. However, the Post Digestion Spike was compliant so no corrective action was necessary.

Method(s) 6010C: The Serial Dilution and Post Spike (480-117313-C-7-J PDS) and (480-117313-C-7-J SD) exceeded the quality control limits for Total Aluminum, Barium, Potassium, Magnesium, Manganese, Iron and Zinc. Sample matrix is suspected, therefore, no corrective action was necessary.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### LCMS

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **Organic Prep**

Method(s) 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: SS-1 (480-117313-1), SS-2 (480-117313-2), SS-3 (480-117313-3), SS-4 (480-117313-4), SS-5 (480-117313-5), SS-6 (480-117313-6), SS-7 (480-117313-7), SS-7 (480-117313-7[MS]), SS-7 (480-117313-7[MS]), SS-8 (480-117313-8), SS-9 (480-117313-9), SS-10 (480-117313-10), SS-11 (480-117313-11), SS-12 (480-117313-12), SS-13 (480-117313-13), SS-14 (480-117313-14), SS-15 (480-117313-15) and SS-DUP1 (480-117313-16).

Method(s) 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: SS-2 (480-117313-2). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

**Client Sample ID: SS-5** Lab Sample ID: 480-117313-5 Date Collected: 05/02/17 09:00 Matrix: Solid

Date Received: 05/02/17 15:00 Percent Solids: 86.9

Method: 8260C - Volatile Organic	-	Qualifier	RL	MDL	Unit	D	Drongrad	Analuzod	Dil Fa
Analyte 1,1,1-Trichloroethane	ND			0.37	ug/Kg	— <del>¤</del>	Prepared 05/04/17 13:39	Analyzed 05/12/17 12:27	DII Fa
1,1,1-1 richioroethane	ND ND		0.98	0.37	ug/Kg ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
, , ,	ND ND					₩			
1,1,2-Trichloro-1,2,2-trifluoroethane			0.98	0.43	ug/Kg	¥	05/04/17 13:39	05/12/17 12:27	
1,1,2-Trichloroethane	ND		0.98		ug/Kg		05/04/17 13:39	05/12/17 12:27	
1,1-Dichloroethane	ND		0.98		ug/Kg	ψ.	05/04/17 13:39	05/12/17 12:27	
1,1-Dichloroethene	ND		0.98	0.40	ug/Kg	J	05/04/17 13:39	05/12/17 12:27	
1,2,4-Trichlorobenzene	ND		0.98		ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
1,2-Dibromo-3-Chloropropane	ND		0.98		ug/Kg	<b>*</b>	05/04/17 13:39	05/12/17 12:27	
I,2-Dibromoethane	ND		0.98		ug/Kg		05/04/17 13:39	05/12/17 12:27	
1,2-Dichlorobenzene	ND		0.98	0.14	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
1,2-Dichloroethane	ND		0.98	0.11	ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
1,2-Dichloropropane	ND		0.98	0.17	ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
1,3-Dichlorobenzene	ND		0.98	0.12	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
1,4-Dichlorobenzene	ND		0.98	0.13	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
1,4-Dioxane	ND		20	6.3	ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
2-Butanone (MEK)	ND		4.9	0.76	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
2-Hexanone	ND		4.9	0.92	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
4-Methyl-2-pentanone (MIBK)	ND		4.9	2.2	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
Acetone	ND		4.9	1.0	ug/Kg	\$	05/04/17 13:39	05/12/17 12:27	
Benzene	ND		0.98	0.20	ug/Kg	☼	05/04/17 13:39	05/12/17 12:27	
Bromodichloromethane	ND		0.98	0.37	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
Bromoform	ND		0.98	0.13	ug/Kg	ф.	05/04/17 13:39	05/12/17 12:27	
Bromomethane	ND		0.98	0.31	ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
Carbon disulfide	ND		0.98	0.42	ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
Carbon tetrachloride	ND		0.98		ug/Kg		05/04/17 13:39	05/12/17 12:27	
Chlorobenzene	ND		0.98		ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
Chloroethane	ND		0.98		ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
Chloroform	ND		0.98	0.21	ug/Kg		05/04/17 13:39	05/12/17 12:27	
Chloromethane	ND	*	0.98	0.37	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
cis-1,2-Dichloroethene	ND		0.98		ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
cis-1,3-Dichloropropene	ND		0.98		ug/Kg	 ☆	05/04/17 13:39	05/12/17 12:27	
Cyclohexane	ND ND		0.98		ug/Kg ug/Kg		05/04/17 13:39	05/12/17 12:27	
•									
Dibromochloromethane	ND		0.98		ug/Kg		05/04/17 13:39	05/12/17 12:27	
Dichlorodifluoromethane	ND		0.98		ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
Ethylbenzene 	ND		0.98		ug/Kg		05/04/17 13:39	05/12/17 12:27	
sopropylbenzene	ND		0.98		ug/Kg	<u></u> .	05/04/17 13:39	05/12/17 12:27	
Methyl acetate	ND		4.9		ug/Kg	₩.	05/04/17 13:39	05/12/17 12:27	
Methyl tert-butyl ether	ND		0.98		ug/Kg		05/04/17 13:39	05/12/17 12:27	
Methylcyclohexane	ND		0.98		ug/Kg		05/04/17 13:39	05/12/17 12:27	
Methylene Chloride	2.9		0.98	0.31	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
Styrene	ND		0.98	0.15	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
Tetrachloroethene	0.43	J	0.98	0.28	ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
Гoluene	ND		0.98	0.19	ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
rans-1,2-Dichloroethene	ND		0.98	0.38	ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
trans-1,3-Dichloropropene	ND		0.98	0.098	ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
Trichloroethene	ND		0.98	0.26	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
Trichlorofluoromethane	ND		0.98	0.33	ug/Kg	₽	05/04/17 13:39	05/12/17 12:27	
Vinyl chloride	ND		0.98	0.38	ug/Kg	₩	05/04/17 13:39	05/12/17 12:27	
Xylenes, Total	0.17	J	2.0	0.11	ug/Kg	φ.	05/04/17 13:39	05/12/17 12:27	

TestAmerica Buffalo

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TestAmerica Job ID: 480-117313-1

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Client Sample ID: SS-5 Lab Sample ID: 480-117313-5

Date Collected: 05/02/17 09:00 Date Received: 05/02/17 15:00 Lab Sample ID: 480-117313-5

Matrix: Solid

TestAmerica Job ID: 480-117313-1

Percent Solids: 86.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		78 - 135	05/04/17 13:39	05/12/17 12:27	1
4-Bromofluorobenzene	102		67 - 126	05/04/17 13:39	05/12/17 12:27	1
Dibromofluoromethane (Surr)	124		61 - 149	05/04/17 13:39	05/12/17 12:27	1
Toluene-d8 (Surr)	94		73 - 121	05/04/17 13:39	05/12/17 12:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Biphenyl	ND		970	140	ug/Kg	<del></del>	05/05/17 07:53	05/07/17 00:10	
ois (2-chloroisopropyl) ether	ND		970	190	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
2,4,5-Trichlorophenol	ND		970	260	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
2,4,6-Trichlorophenol	ND		970	190	ug/Kg		05/05/17 07:53	05/07/17 00:10	
2,4-Dichlorophenol	ND		970	100	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
2,4-Dimethylphenol	ND		970	230	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
2,4-Dinitrophenol	ND		9500	4500	ug/Kg	φ.	05/05/17 07:53	05/07/17 00:10	
2,4-Dinitrotoluene	ND		970	200	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
2,6-Dinitrotoluene	ND		970	110	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
2-Chloronaphthalene	ND		970	160	ug/Kg	φ.	05/05/17 07:53	05/07/17 00:10	
2-Chlorophenol	ND		970	180	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
2-Methylphenol	ND		970	110	ug/Kg	₩	05/05/17 07:53	05/07/17 00:10	
2-Methylnaphthalene	ND		970	190	ug/Kg		05/05/17 07:53	05/07/17 00:10	
2-Nitroaniline	ND		1900	140	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
2-Nitrophenol	ND		970	270	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
3,3'-Dichlorobenzidine	ND		1900		ug/Kg		05/05/17 07:53	05/07/17 00:10	
3-Nitroaniline	ND		1900	270	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
1,6-Dinitro-2-methylphenol	ND		1900	970	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
4-Bromophenyl phenyl ether	ND		970	140	ug/Kg		05/05/17 07:53	05/07/17 00:10	
4-Chloro-3-methylphenol	ND		970	240	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
4-Chloroaniline	ND		970	240	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
1-Chlorophenyl phenyl ether	ND		970	120	ug/Kg	ф	05/05/17 07:53	05/07/17 00:10	
4-Methylphenol	ND		1900	110	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
4-Nitroaniline	ND		1900	510	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
4-Nitrophenol	ND		1900	680	ug/Kg		05/05/17 07:53	05/07/17 00:10	
Acenaphthene	ND		970	140	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
Acenaphthylene	ND		970		ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
Acetophenone	ND		970		ug/Kg		05/05/17 07:53	05/07/17 00:10	
Anthracene	ND		970	240	ug/Kg	₩	05/05/17 07:53	05/07/17 00:10	
Atrazine	ND		970	340	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
Benzaldehyde	ND		970		ug/Kg		05/05/17 07:53	05/07/17 00:10	
Benzo[a]anthracene	350	J.	970	97	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
Benzo[a]pyrene	340		970	140	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
Benzo[b]fluoranthene		J	970	150	ug/Kg		05/05/17 07:53	05/07/17 00:10	
Benzo[g,h,i]perylene		J	970		ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
Benzo[g,n,n]peryiene Benzo[k]fluoranthene	170		970		ug/Kg ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
Bis(2-chloroethoxy)methane	ND		970	210			05/05/17 07:53	05/07/17 00:10	
Bis(2-chloroethyl)ether	ND		970		ug/Kg ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
Bis(2-ethylhexyl) phthalate	1000		970			₽	05/05/17 07:53	05/07/17 00:10	
Butyl benzyl phthalate	ND		970		ug/Kg		05/05/17 07:53	05/07/17 00:10	
Caprolactam	ND		970		ug/Kg ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
Carbazole	ND ND		970		ug/Kg ug/Kg	т Ф	05/05/17 07:53	05/07/17 00:10	
Chrysene	350		970		ug/Kg ug/Kg		05/05/17 07:53	05/07/17 00:10	

TestAmerica Buffalo

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Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

**Client Sample ID: SS-5** 

Lab Sample ID: 480-117313-5 Date Collected: 05/02/17 09:00 Matrix: Solid

Date Received: 05/02/17 15:00 Percent Solids: 86.9

Method: 8270D - Semivolatile Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		970	170	ug/Kg	<u></u>	05/05/17 07:53	05/07/17 00:10	
Di-n-butyl phthalate	ND		970		ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	5
Di-n-octyl phthalate	ND		970	110	ug/Kg		05/05/17 07:53	05/07/17 00:10	
Dibenzofuran	ND		970	110	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
Diethyl phthalate	ND		970	130	ug/Kg	₩	05/05/17 07:53	05/07/17 00:10	
Dimethyl phthalate	ND		970	110	ug/Kg		05/05/17 07:53	05/07/17 00:10	
Fluoranthene	730	1	970	100	ug/Kg	₩	05/05/17 07:53	05/07/17 00:10	į
Fluorene	ND	•	970	110	ug/Kg	₩	05/05/17 07:53	05/07/17 00:10	į
Hexachlorobenzene	ND		970	130	ug/Kg	 Ф	05/05/17 07:53	05/07/17 00:10	
Hexachlorobutadiene	ND		970	140	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	į
Hexachlorocyclopentadiene	ND		970	130	ug/Kg ug/Kg	₩	05/05/17 07:53	05/07/17 00:10	į
Hexachloroethane	ND		970	130	ug/Kg ug/Kg	· · · · · · · · · · · · · · · · · · ·	05/05/17 07:53	05/07/17 00:10	
						₩			
Indeno[1,2,3-cd]pyrene	210	J	970	120	ug/Kg	₩	05/05/17 07:53	05/07/17 00:10	
Isophorone	ND		970	210	ug/Kg		05/05/17 07:53	05/07/17 00:10	,
N-Nitrosodi-n-propylamine	ND		970	170	ug/Kg	<b>*</b>	05/05/17 07:53	05/07/17 00:10	
N-Nitrosodiphenylamine	ND		970	790	ug/Kg		05/05/17 07:53	05/07/17 00:10	
Naphthalene	ND		970	130	ug/Kg		05/05/17 07:53	05/07/17 00:10	
Nitrobenzene	ND		970	110	ug/Kg	<b>*</b>	05/05/17 07:53	05/07/17 00:10	Ę
Pentachlorophenol	ND		1900	970	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	į
Phenanthrene	430	J	970	140	ug/Kg		05/05/17 07:53	05/07/17 00:10	
Phenol	ND		970	150	ug/Kg	₩	05/05/17 07:53	05/07/17 00:10	į
Pyrene	610	J	970	110	ug/Kg	₽	05/05/17 07:53	05/07/17 00:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Nitrobenzene-d5 (Surr)	87		53 - 120				05/05/17 07:53	05/07/17 00:10	
Phenol-d5 (Surr)	69		54 - 120				05/05/17 07:53	05/07/17 00:10	
p-Terphenyl-d14 (Surr)	78		65 - 121				05/05/17 07:53	05/07/17 00:10	
2,4,6-Tribromophenol (Surr)	93		54 - 120				05/05/17 07:53	05/07/17 00:10	
2-Fluorobiphenyl	73		60 - 120				05/05/17 07:53	05/07/17 00:10	
2-Fluorophenol (Surr)	73		52 - 120				05/05/17 07:53	05/07/47 00:40	
			02 - 120					05/07/17 00:10	•
Method: 8081B - Organochlo		C)	02 - 720					05/07/17 00:10	,
Analyte	rine Pesticides (G Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Analyte	rine Pesticides (G	•	RL	0.37	ug/Kg	D <u>₩</u>	05/03/17 07:59	Analyzed 05/04/17 19:53	Dil Fa
Method: 8081B - Organochlor Analyte 4,4'-DDD 4,4'-DDE	rine Pesticides (G Result	Qualifier J	RL	0.37 0.39	ug/Kg ug/Kg			Analyzed 05/04/17 19:53 05/04/17 19:53	Dil Fac
Analyte 4,4'-DDD	rine Pesticides (G Result 1.8	Qualifier J	RL	0.37 0.39	ug/Kg	<del></del>	05/03/17 07:59	Analyzed 05/04/17 19:53	Dil Fac
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT	rine Pesticides (G Result 1.8 1.3	Qualifier J	RL	0.37 0.39 0.44	ug/Kg ug/Kg	<del>*</del>	05/03/17 07:59 05/03/17 07:59	Analyzed 05/04/17 19:53 05/04/17 19:53	Dil Fa
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin	rine Pesticides (G Result 1.8 1.3 5.8	Qualifier J	RL 1.9 1.9 1.9	0.37 0.39 0.44 0.46	ug/Kg ug/Kg ug/Kg	<del>*</del> *	05/03/17 07:59 05/03/17 07:59 05/03/17 07:59	Analyzed 05/04/17 19:53 05/04/17 19:53 05/04/17 19:53	Dil Fa
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC	rine Pesticides (G Result 1.8 1.3 5.8 ND	Qualifier J	RL 1.9 1.9 1.9 1.9	0.37 0.39 0.44 0.46 0.34	ug/Kg ug/Kg ug/Kg ug/Kg	* *	05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59	Analyzed  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53	Dil Fa
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC alpha-Chlordane	rine Pesticides (G Result 1.8 1.3 5.8 ND ND	Qualifier J	RL 1.9 1.9 1.9 1.9 1.9	0.37 0.39 0.44 0.46 0.34 0.94	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	* *	05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59	Analyzed  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53	Dil Fa
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC	rine Pesticides (G Result 1.8 1.3 5.8 ND ND	Qualifier J	RL 1.9 1.9 1.9 1.9 1.9	0.37 0.39 0.44 0.46 0.34 0.94	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	* * * * * *	05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59	Analyzed  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53	Dil Fa
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC	rine Pesticides (G Result 1.8 1.3 5.8 ND ND ND	Qualifier J	RL 1.9 1.9 1.9 1.9 1.9 1.9	0.37 0.39 0.44 0.46 0.34 0.94 0.34	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59	Analyzed  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53	Dil Fa
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC	rine Pesticides (G Result 1.8 1.3 5.8 ND ND ND ND	Qualifier J	RL 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	0.37 0.39 0.44 0.46 0.34 0.94 0.34 0.35	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59	Analyzed  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53	Dil Fa
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC Dieldrin Endosulfan I	rine Pesticides (G Result 1.8 1.3 5.8 ND ND ND ND ND	Qualifier J	RL 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	0.37 0.39 0.44 0.46 0.34 0.94 0.35 0.45	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg		05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59	Analyzed  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53	Dil Fa
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC Dieldrin Endosulfan I Endosulfan II	rine Pesticides (G  Result  1.8  1.3  5.8  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	Qualifier J	RL 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	0.37 0.39 0.44 0.46 0.34 0.94 0.35 0.45 0.36	ug/Kg		05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59 05/03/17 07:59	Analyzed  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53	Dil Fa
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC Dieldrin Endosulfan I Endosulfan sulfate	rine Pesticides (G Result  1.8 1.3 5.8 ND	Qualifier J	RL 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	0.37 0.39 0.44 0.46 0.34 0.94 0.35 0.45 0.36 0.34	ug/Kg		05/03/17 07:59 05/03/17 07:59	Analyzed  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53	Dil Fa
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC Dieldrin Endosulfan I Endosulfan sulfate Endrin	rine Pesticides (G Result 1.8 1.3 5.8 ND	Qualifier J	RL 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	0.37 0.39 0.44 0.46 0.34 0.34 0.35 0.45 0.36 0.34	ug/Kg		05/03/17 07:59 05/03/17 07:59	Analyzed  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53	Dil Fac
Analyte 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC Dieldrin Endosulfan I Endosulfan sulfate Endrin Endrin aldehyde	rine Pesticides (G Result 1.8 1.3 5.8 ND	Qualifier J	RL 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	0.37 0.39 0.44 0.46 0.34 0.35 0.45 0.36 0.34 0.35	ug/Kg		05/03/17 07:59 05/03/17 07:59	Analyzed  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53	Dil Fac
Analyte 4,4'-DDD 4,4'-DDE	rine Pesticides (G Result 1.8 1.3 5.8 ND	Qualifier J	RL 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	0.37 0.39 0.44 0.46 0.34 0.35 0.45 0.36 0.34 0.35 0.45	ug/Kg		05/03/17 07:59 05/03/17 07:59	Analyzed  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53  05/04/17 19:53	Dil Fac

TestAmerica Buffalo

05/04/17 19:53

05/03/17 07:59

1.9

0.60 ug/Kg

ND

gamma-Chlordane

TestAmerica Job ID: 480-117313-1

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

**Client Sample ID: SS-5** Lab Sample ID: 480-117313-5

Date Collected: 05/02/17 09:00 Matrix: Solid

Date Received: 05/02/17 15:00 Percent Solids: 86.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.41	ug/Kg	₽	05/03/17 07:59	05/04/17 19:53	1
Heptachlor epoxide	ND		1.9	0.48	ug/Kg	₽	05/03/17 07:59	05/04/17 19:53	1
Methoxychlor	ND		1.9	0.38	ug/Kg	₽	05/03/17 07:59	05/04/17 19:53	1
Toxaphene	ND		19	11	ug/Kg	₽	05/03/17 07:59	05/04/17 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85		45 - 120				05/03/17 07:59	05/04/17 19:53	1
DCB Decachlorobiphenyl	108		45 - 120				05/03/17 07:59	05/04/17 19:53	1
Tetrachloro-m-xylene	68		30 - 124				05/03/17 07:59	05/04/17 19:53	1
Tetrachloro-m-xylene	58		30 - 124				05/03/17 07:59	05/04/17 19:53	

Analyte	chlorinated Biphenyls (PC Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	<u> </u>	05/03/17 13:40	05/04/17 03:06	1
PCB-1221	ND		0.27	0.052	mg/Kg	₩	05/03/17 13:40	05/04/17 03:06	1
PCB-1232	ND		0.27	0.052	mg/Kg	₽	05/03/17 13:40	05/04/17 03:06	1
PCB-1242	ND		0.27	0.052	mg/Kg	₽	05/03/17 13:40	05/04/17 03:06	1
PCB-1248	ND		0.27	0.052	mg/Kg	₩	05/03/17 13:40	05/04/17 03:06	1
PCB-1254	ND		0.27	0.13	mg/Kg	₽	05/03/17 13:40	05/04/17 03:06	1
PCB-1260	ND		0.27	0.13	mg/Kg	₩	05/03/17 13:40	05/04/17 03:06	1
PCB-1262	ND		0.27	0.13	mg/Kg	₩	05/03/17 13:40	05/04/17 03:06	1
PCB-1268	ND		0.27	0.13	mg/Kg	\$	05/03/17 13:40	05/04/17 03:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	104	60 - 154	05/03/17 13:40	05/04/17 03:06	1
Tetrachloro-m-xylene	89	60 - 154	05/03/17 13:40	05/04/17 03:06	1
DCB Decachlorobiphenyl	107	65 _ 174	05/03/17 13:40	05/04/17 03:06	1
DCB Decachlorobiphenyl	95	65 - 174	05/03/17 13:40	05/04/17 03:06	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.18	JB	0.23	0.074	ug/Kg	\$	05/08/17 11:20	05/15/17 23:37	1
Perfluoropentanoic acid (PFPeA)	ND		0.23	0.15	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluorohexanoic acid (PFHxA)	ND		0.23	0.081	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluoroheptanoic acid (PFHpA)	ND		0.23	0.10	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluorooctanoic acid (PFOA)	ND		0.23	0.12	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluorononanoic acid (PFNA)	ND		0.23	0.094	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluorodecanoic acid (PFDA)	0.099	J	0.23	0.065	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.12	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluorododecanoic acid (PFDoA)	ND		0.23	0.14	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluorotridecanoic Acid (PFTriA)	ND		0.23	0.10	ug/Kg	\$	05/08/17 11:20	05/15/17 23:37	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.066	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.12	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.23	0.13	ug/Kg	\$	05/08/17 11:20	05/15/17 23:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.23	0.13	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluorooctanesulfonic acid (PFOS)	0.51		0.23	0.14	ug/Kg	₩	05/08/17 11:20	05/15/17 23:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.082	ug/Kg	₽	05/08/17 11:20	05/15/17 23:37	1
Perfluorooctane Sulfonamide (FOSA)	ND		0.23	0.091	ug/Kg	☼	05/08/17 11:20	05/15/17 23:37	1

TestAmerica Buffalo

TestAmerica Job ID: 480-117313-1

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Lab Sample ID: 480-117313-5

TestAmerica Job ID: 480-117313-1

Percent Solids: 86.9

**Client Sample ID: SS-5** Date Collected: 05/02/17 09:00 Matrix: Solid Date Received: 05/02/17 15:00

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	12	*	25 - 150	05/08/17 11:20	05/15/17 23:37	1
13C4 PFBA	72		25 - 150	05/08/17 11:20	05/15/17 23:37	1
13C2 PFHxA	65		25 - 150	05/08/17 11:20	05/15/17 23:37	1
13C4 PFOA	80		25 - 150	05/08/17 11:20	05/15/17 23:37	1
13C5 PFNA	75		25 - 150	05/08/17 11:20	05/15/17 23:37	1
13C2 PFDA	83		25 - 150	05/08/17 11:20	05/15/17 23:37	1
13C2 PFUnA	77		25 - 150	05/08/17 11:20	05/15/17 23:37	1
13C2 PFDoA	58		25 - 150	05/08/17 11:20	05/15/17 23:37	1
1802 PFHxS	61		25 - 150	05/08/17 11:20	05/15/17 23:37	1
13C4 PFOS	56		25 - 150	05/08/17 11:20	05/15/17 23:37	1
13C4-PFHpA	75		25 - 150	05/08/17 11:20	05/15/17 23:37	1
13C5 PFPeA	74		25 - 150	05/08/17 11:20	05/15/17 23:37	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17900		11.6	5.1	mg/Kg	<u></u>	05/09/17 10:01	05/12/17 21:11	1
Antimony	ND		17.4	0.47	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Arsenic	6.3		2.3	0.47	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Barium	160		0.58	0.13	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Beryllium	0.76		0.23	0.033	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Cadmium	0.55		0.23	0.035	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Calcium	21200	В	58.2	3.8	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Chromium	21.8		0.58	0.23	mg/Kg	☼	05/09/17 10:01	05/12/17 21:11	1
Cobalt	14.8		0.58	0.058	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Copper	19.9		1.2	0.24	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Iron	20900		11.6	4.1	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Lead	41.2		1.2	0.28	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Magnesium	7880		23.3	1.1	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Manganese	1160	В	0.23	0.037	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Nickel	21.2		5.8	0.27	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Potassium	3630		34.9	23.3	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Selenium	0.94	J	4.7	0.47	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Silver	ND		0.70	0.23	mg/Kg	₽	05/09/17 10:01	05/15/17 21:35	1
Sodium	125	J	163	15.1	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Thallium	ND		7.0	0.35	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Vanadium	37.2		0.58	0.13	mg/Kg	₽	05/09/17 10:01	05/12/17 21:11	1
Zinc	112		2.3	0.74	mg/Kg		05/09/17 10:01	05/12/17 21:11	1

Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.021	0.0086	mg/Kg	<del>\</del>	05/03/17 12:45	05/03/17 14:30	1

TestAmerica Buffalo

Client: New York State D.E.C.

Xylenes, Total

Project/Site: Highland Plaza - OffSite C915293A

TestAmerica Job ID: 480-117313-1

Lab Sample ID: 480-117313-6

**Client Sample ID: SS-6** Date Collected: 05/02/17 11:00 Matrix: Solid Date Received: 05/02/17 15:00 Percent Solids: 85.3

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND -	0.98	0.37	ug/Kg	<del>\</del>	05/04/17 13:40	05/12/17 12:50	1
1,1,2,2-Tetrachloroethane	ND	0.98	0.17	ug/Kg	₽	05/04/17 13:40	05/12/17 12:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.98	0.43	ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
1,1,2-Trichloroethane	ND	0.98	0.27	ug/Kg		05/04/17 13:40	05/12/17 12:50	1
1,1-Dichloroethane	ND	0.98	0.33	ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
1,1-Dichloroethene	ND	0.98	0.40	ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
1,2,4-Trichlorobenzene	ND	0.98	0.31	ug/Kg		05/04/17 13:40	05/12/17 12:50	1
1,2-Dibromo-3-Chloropropane	ND	0.98	0.46	ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
1,2-Dibromoethane	ND	0.98	0.12	ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
1,2-Dichlorobenzene	ND	0.98	0.14	ug/Kg		05/04/17 13:40	05/12/17 12:50	1
1,2-Dichloroethane	ND	0.98	0.11	ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
1,2-Dichloropropane	ND	0.98	0.17	ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
1,3-Dichlorobenzene	ND	0.98	0.12	ug/Kg		05/04/17 13:40	05/12/17 12:50	1
1,4-Dichlorobenzene	ND	0.98	0.13	ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
1,4-Dioxane	ND	20	6.3	ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
2-Butanone (MEK)	ND	4.9	0.75	ug/Kg	ф.	05/04/17 13:40	05/12/17 12:50	1
2-Hexanone	ND	4.9	0.92	ug/Kg	₽	05/04/17 13:40	05/12/17 12:50	1
4-Methyl-2-pentanone (MIBK)	ND	4.9		ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
Acetone	ND	4.9	1.0	ug/Kg		05/04/17 13:40	05/12/17 12:50	1
Benzene	ND	0.98	0.20	ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
Bromodichloromethane	ND	0.98	0.37	ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
Bromoform	ND	0.98				05/04/17 13:40	05/12/17 12:50	
Bromomethane	ND	0.98	0.31	ug/Kg	₽	05/04/17 13:40	05/12/17 12:50	1
Carbon disulfide	ND	0.98		ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
Carbon tetrachloride	ND	0.98		ug/Kg		05/04/17 13:40	05/12/17 12:50	1
Chlorobenzene	ND	0.98		ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
Chloroethane	ND	0.98		ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
Chloroform	ND	0.98	0.21	ug/Kg		05/04/17 13:40	05/12/17 12:50	1
Chloromethane	ND *	0.98		ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
cis-1,2-Dichloroethene	ND	0.98			₩	05/04/17 13:40	05/12/17 12:50	1
cis-1,3-Dichloropropene	ND	0.98		ug/Kg		05/04/17 13:40	05/12/17 12:50	
Cyclohexane	ND	0.98			₩	05/04/17 13:40	05/12/17 12:50	1
Dibromochloromethane	ND	0.98			₽	05/04/17 13:40	05/12/17 12:50	1
Dichlorodifluoromethane	ND	0.98	0.31	ug/Kg		05/04/17 13:40	05/12/17 12:50	1
Ethylbenzene	ND	0.98	0.18	ug/Kg	₽	05/04/17 13:40	05/12/17 12:50	1
Isopropylbenzene	ND	0.98		ug/Kg	₽	05/04/17 13:40	05/12/17 12:50	1
Methyl acetate	ND	4.9		ug/Kg	ф ф	05/04/17 13:40	05/12/17 12:50	1
Methyl tert-butyl ether	ND	0.98		ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
Methylcyclohexane	ND	0.98		ug/Kg	₽	05/04/17 13:40	05/12/17 12:50	1
Methylene Chloride	1.6	0.98		ug/Kg		05/04/17 13:40	05/12/17 12:50	
Styrene	ND	0.98		ug/Kg	₩	05/04/17 13:40	05/12/17 12:50	1
Tetrachloroethene	ND	0.98		ug/Kg	₽	05/04/17 13:40	05/12/17 12:50	1
Toluene	ND	0.98		ug/Kg		05/04/17 13:40	05/12/17 12:50	
trans-1,2-Dichloroethene	ND	0.98		ug/Kg ug/Kg	₽	05/04/17 13:40	05/12/17 12:50	1
trans-1,3-Dichloropropene	ND	0.98		ug/Kg ug/Kg	₽	05/04/17 13:40	05/12/17 12:50	1
Trichloroethene	ND	0.98		ug/Kg ug/Kg		05/04/17 13:40	05/12/17 12:50	1
Trichlorofluoromethane	ND	0.98		ug/Kg ug/Kg	₽	05/04/17 13:40	05/12/17 12:50	1
Vinyl chloride	ND	0.98		ug/Kg ug/Kg		05/04/17 13:40	05/12/17 12:50	1

TestAmerica Buffalo

05/12/17 12:50

05/04/17 13:40

2.0

0.11 ug/Kg

ND

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

**Client Sample ID: SS-6** Lab Sample ID: 480-117313-6 Date Collected: 05/02/17 11:00 Matrix: Solid Date Received: 05/02/17 15:00

Percent Solids: 85.3

TestAmerica Job ID: 480-117313-1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106	78 - 135	05/04/17 13:40	05/12/17 12:50	1
4-Bromofluorobenzene	106	67 - 126	05/04/17 13:40	05/12/17 12:50	1
Dibromofluoromethane (Surr)	114	61 - 149	05/04/17 13:40	05/12/17 12:50	1
Toluene-d8 (Surr)	92	73 - 121	05/04/17 13:40	05/12/17 12:50	1

Method: 82700 - Semivolatile Organic Compounds (SC/MS)   Analyze   Rut   Mult	
Bipheny  ND   3900   570   ug/Kg   0   050517 07.53   050717 10.35	Dil Fac
2.4.5-Trichlorophenol         ND         3800         1100         ug/kg         0         05/05/17 07:53         05/07/17 00:36           2.4.6-Inchlorophenol         ND         3900         410         ug/kg         0         05/05/17 07:53         05/07/17 00:36           2.4-Dinklorophenol         ND         3900         410         ug/kg         0         05/05/17 07:53         05/07/17 00:36           2.4-Dinkrophenol         ND         3800         1800         ug/kg         0         05/05/17 07:53         05/07/17 00:36           2.4-Dinkrophenol         ND         3900         800         ug/kg         0         05/05/17 07:53         05/07/17 00:36           2.4-Dinkrophenol         ND         3900         460         ug/kg         0         05/05/17 07:53         05/07/17 00:36           2.4-Dinkrophenol         ND         3900         710         ug/kg         0         05/05/17 07:53         05/07/17 00:36           2Methylaphenol         ND         3900         780         ug/kg         0         05/05/17 07:53         05/07/17 00:36           2Mitrophinal         ND         7600         570         ug/kg         0         05/05/17 07:53         05/07/17 00:36           2Mitrophinal	
2.4.6-Trichlorophenol         ND         3800         780         ug/kg         0 5605/17 07:53         05/07/17 00:36           2.4-Dindrityphenol         ND         3900         440         ug/kg         0 56/05/17 07:53         05/07/17 00:36           2.4-Dindrityphenol         ND         3800         940         ug/kg         0 56/05/17 07:53         05/07/17 00:36           2.4-Dinitrololuene         ND         3800         480         ug/kg         0 56/05/17 07:53         05/07/17 00:36           2.4-Dinitrololuene         ND         3900         460         ug/kg         0 56/05/17 07:53         05/07/17 00:36           2.Chloropathtalene         ND         3900         640         ug/kg         0 56/05/17 07:53         05/07/17 00:36           2.Methyphenol         ND         3900         460         ug/kg         0 56/05/17 07:53         05/07/17 00:36           2.Metryphapithalene         ND         7600         570         ug/kg         0 56/05/17 07:53         05/07/17 00:36           2.Mitrophienol         ND         7600         570         ug/kg         0 56/05/17 07:53         05/07/17 00:36           2.Mitrophienol         ND         7600         4500         ug/kg         0 56/05/17 07:53         05/07/17 00:3	:36 20
2.4-Dichlorophenol ND 3900 410 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 1800 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 1800 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 1800 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 800 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 640 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 640 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 640 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 640 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 710 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 760 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 760 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 760 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2.4-Dimitrophenol ND 3800 760 ug/kg 0 05/05/17 07:53 05/07/17 00:36 3.3-Dichloroberizidine ND 7600 4600 ug/kg 0 05/05/17 07:53 05/07/17 00:36 3.3-Dichloroberizidine ND 7600 4600 ug/kg 0 05/05/17 07:53 05/07/17 00:36 3.3-Dichloroberizidine ND 7600 3800 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 7600 3800 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 7600 3800 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 7600 3800 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 7600 3800 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 7600 3800 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 3900 3900 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 3900 3900 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 3900 3900 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4.5-Dimitrophenol ND 3900 3900 ug/kg 0 05/05	:36 20
2.4 - Dimethylphenol         ND         3800         940 ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2.4 - Dinitrophenol         ND         38000         18000         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2.4 - Dinitrotoluene         ND         3800         800         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2.4 - Dinitrotoluene         ND         3900         460         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2 Chlorophenol         ND         3900         710         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2 Methylphenol         ND         3900         770         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2 Methylphenol         ND         7800         570         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2 Mitrophenol         ND         7800         4800         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           3 Dichlorobenzidine         ND         7600         1100         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           4. B- Dinitro	:36 20
2.4-Dimethylphenol         ND         3900         940         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2.4-Dinitrophenol         ND         38000         18000         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2.4-Dinitrotoluene         ND         3900         480         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2.6-Dinitrotoluene         ND         3900         640         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2.C-Chlorophenol         ND         3900         710         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2.Methylphenol         ND         3900         780         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2.Mitrophinel         ND         7600         570         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2.Mitrophenol         ND         7600         1100         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           2.Mitrophenol         ND         7600         1400         ug/Kg         0         05/05/17 07:53         05/07/17 00:36           4.B-Dinitro Oxide	:36 20
2.4-Dinitrotoluene ND 3900 800 ug/Kg 0 0505/17 07.53 0507/17 00.36 2.6-Dinitrotoluene ND 3900 460 ug/Kg 0 0505/17 07.53 0507/17 00.36 0507/17	:36 20
2.6-Dinitrotoluene ND 3900 460 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Chloronaphthalene ND 3900 640 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Chloronaphthalene ND 3900 710 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Methylphenol ND 3900 760 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Methylphenol ND 3900 760 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Methylphenol ND 3900 760 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Methylphenol ND 3900 1100 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Methylphenol ND 7600 570 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Methylphenol ND 3900 1100 ug/kg 0 05/05/17 07:53 05/07/17 00:36 3-Mitroaniline ND 7600 4600 ug/kg 0 05/05/17 07:53 05/07/17 00:36 3-Mitroaniline ND 7600 1100 ug/kg 0 05/05/17 07:53 05/07/17 00:36 3-Mitroaniline ND 7600 1100 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Bromophenyl phenyl ether ND 3900 550 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Chloros-methylphenol ND 3900 550 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Chloros-methylphenol ND 3900 860 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Chloros-methylphenol ND 3900 860 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Chloros-methylphenol ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Chloros-methylphenol ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Chloros-methylphenol ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Methylphenol ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Methylphenol ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Methylphenol ND 3900 390 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Methylphenol ND 3900 390 ug/kg 0 05/05/17 07:53 05/07/17 00:36 05/05/17 07:36 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/17 07:36 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/07/17 00:36 05/05/17 07:35 05/07/17 00:36 05/05/1	:36 20
2-Chloronaphthalene ND 3900 640 Ug/Kg 0505/17 07.53 05/07/17 00.36 2-Chlorophenol ND 3900 710 Ug/Kg 0505/17 07.53 05/07/17 00.36 05/07/17 00.	:36 20
2-Chlorophenol ND 3900 710 ug/Kg 3 05/05/17 07:53 05/07/17 00:36 2-Methylphenol ND 3900 460 ug/Kg 5 05/05/17 07:53 05/07/17 00:36 2-Methylphenol ND 3900 760 ug/Kg 5 05/05/17 07:53 05/07/17 00:36 2-Methylphenol ND 7600 760 ug/Kg 5 05/05/17 07:53 05/07/17 00:36 2-Mitrophenol ND 7600 760 ug/Kg 5 05/05/17 07:53 05/07/17 00:36 2-Nitrophenol ND 7600 4600 ug/Kg 5 05/05/17 07:53 05/07/17 00:36 33-Dichlorobenzidine ND 7600 4600 ug/Kg 5 05/05/17 07:53 05/07/17 00:36 33-Dichlorobenzidine ND 7600 4600 ug/Kg 5 05/05/17 07:53 05/07/17 00:36 33-Dichlorobenzidine ND 7600 3900 ug/Kg 5 05/05/17 07:53 05/07/17 00:36 4-Bromophenyl phenyl ether ND 3900 550 ug/Kg 6 05/05/17 07:53 05/07/17 00:36 4-Bromophenyl phenyl ether ND 3900 550 ug/Kg 6 05/05/17 07:53 05/07/17 00:36 4-Bromophenyl phenyl ether ND 3900 480 ug/Kg 6 05/05/17 07:53 05/07/17 00:36 4-Chloro-3-methylphenol ND 3900 480 ug/Kg 6 05/05/17 07:53 05/07/17 00:36 4-Chloro-3-methylphenol ND 7600 480 ug/Kg 7 05/05/17 07:53 05/07/17 00:36 4-Chloro-3-methylphenol ND 7600 480 ug/Kg 7 05/05/17 07:53 05/07/17 00:36 4-Chloro-3-methylphenol ND 7600 200 ug/Kg 8 05/05/17 07:53 05/07/17 00:36 4-Nitrophenol ND 7600 200 ug/Kg 8 05/05/17 07:53 05/07/17 00:36 4-Nitrophenol ND 7600 200 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 4-Nitrophenol ND 7600 200 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 4-Nitrophenol ND 7600 200 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 A-Cenaphthylene ND 3900 570 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 A-Cenaphthylene ND 3900 570 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 A-Cenaphthylene ND 3900 960 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 Benzo[a]ptynene ND 3900 390 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 Benzo[a]ptynene ND 3900 390 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 Benzo[a]ptynene ND 3900 390 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 Benzo[a]ptynene ND 3900 390 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 Benzo[a]ptynene ND 3900 390 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 Benzo[a]ptynene ND 3900 390 ug/Kg 9 05/05/17 07:53 05/07/17 00:36 Benzo[a]ptynene ND 3900 390 ug/Kg 9 05/05/17 07:53 05/07/17 00:3	:36 20
2-Chlorophenol ND 3900 710 ug/kg 0 05005/17 07:53 05/07/17 00:36 2-Methylphenol ND 3900 460 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Methylphenol ND 3900 460 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Methylphenol ND 7600 750 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Nitroanilline ND 7600 750 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Nitroanilline ND 7600 100 ug/kg 0 05/05/17 07:53 05/07/17 00:36 2-Nitroanilline ND 7600 1100 ug/kg 0 05/05/17 07:53 05/07/17 00:36 3-Nitroanilline ND 7600 1100 ug/kg 0 05/05/17 07:53 05/07/17 00:36 3-Nitroanilline ND 7600 1100 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Bromophenyl phenyl ether ND 3900 550 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Bromophenyl phenyl ether ND 3900 550 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Bromophenyl phenyl ether ND 3900 480 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Chloroanilline ND 7600 1200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Chloroanilline ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Chloroanilline ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Chlorophenyl phenyl ether ND 3900 480 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Chlorophenyl phenyl ether ND 3900 480 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Mitroanilline ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Mitroanilline ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Mitroanilline ND 7600 200 ug/kg 0 05/05/17 07:53 05/07/17 00:36 4-Mitroanilline ND 3900 570 ug/kg 0 05/05/17 07:53 05/07/17 00:36 Acenaphthylene ND 3900 570 ug/kg 0 05/05/17 07:53 05/07/17 00:36 Acenaphthylene ND 3900 570 ug/kg 0 05/05/17 07:53 05/07/17 00:36 Acenaphthylene ND 3900 570 ug/kg 0 05/05/17 07:53 05/07/17 00:36 Benzo[a]ntracene ND 3900 390 ug/kg 0 05/05/17 07:53 05/07/17 00:36 Benzo[a]ntracene ND 3900 390 ug/kg 0 05/05/17 07:53 05/07/17 00:36 Benzo[a]ntracene ND 3900 390 ug/kg 0 05/05/17 07:53 05/07/17 00:36 Benzo[a]ntracene ND 3900 390 ug/kg 0 05/05/17 07:53 05/07/17 00:36 Benzo[a]ntracene ND 3900 390 ug/kg 0 05/05/17 07:53 05/07/17 00:36 Benzo[a]ntracene ND 3900 390 ug/kg 0 05/05/17 07:53 05/07/17 00:36 Ben	:36 20
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2-Nitroaniline ND 7600 570 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 2-Nitrophenol ND 3900 1100 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 3.3'-Dichlorobenzidine ND 7600 4600 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 3.3'-Dichlorobenzidine ND 7600 1100 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.6-Dinitro-2-methylphenol ND 7600 1100 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.6-Dinitro-2-methylphenol ND 3900 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.6-Dinitro-2-methylphenol ND 3900 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.6-Dinitro-2-methylphenol ND 3900 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.6-Chloroa-3-methylphenol ND 3900 960 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.6-Chloroa-3-methylphenol ND 3900 960 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.6-Chloroa-3-methylphenol ND 3900 960 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.6-Chloroa-1-methylphenol ND 3900 480 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.6-Chloroa-1-methylphenol ND 7600 460 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.6-Chloroa-1-methylphenol ND 7600 2700 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.6-Nitroaniline ND 7600 2700 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenol ND 7600 2700 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenol ND 3900 570 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenol ND 3900 570 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenone ND 3900 570 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenone ND 3900 570 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenone ND 3900 570 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenone ND 3900 3900 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenone ND 3900 3900 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenone ND 3900 3900 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenone ND 3900 3900 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenone ND 3900 3900 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenone ND 3900 3900 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenone ND 3900 3900 ug/Kg 0 05/05/17 07:53 05/07/17 00:36 4.0-Nitrophenone ND 3900 3900 ug/Kg 0 05/05/17 07:53 05/07/17 00	:36 20
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4-Nitrophenol ND 7600 2700 ug/Kg 05/05/17 07:53 05/07/17 00:36 Acenaphthene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Acenaphthylene ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Acenaphthylene ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Acetophenone ND 3900 530 ug/Kg 05/05/17 07:53 05/07/17 00:36 Acetophenone ND 3900 960 ug/Kg 05/05/17 07:53 05/07/17 00:36 Atrazine ND 3900 1400 ug/Kg 05/05/17 07:53 05/07/17 00:36 Atrazine ND 3900 1400 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzaldehyde ND 3900 3100 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzaldehyde ND 3900 390 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 620 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 620 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzalgapyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyy)methane ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyy)methane ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyy) phthalate ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-chlylhexyl) phthalate ND 3900 640 ug/Kg 05/05/17 07:53 05/07/17 00:36 Butyl benzyl phthalate ND 3900 640 ug/Kg 05/05/17 07:53 05/07/17 00:36 Butyl benzyl phthalate ND 3900 640 ug/Kg 05/05/17 07:53 05/07/17 00:36 Butyl benzyl phthalate ND 3900 640 ug/Kg 05/05/17 07:53 05/07/17 00:36 Butyl benzyl phthalate	
Acenaphthene         ND         3900         570         ug/kg         © 05/05/17 07:53         05/07/17 00:36           Acenaphthylene         ND         3900         510         ug/kg         © 05/05/17 07:53         05/07/17 00:36           Acetophenone         ND         3900         530         ug/kg         © 05/05/17 07:53         05/07/17 00:36           Anthracene         ND         3900         960         ug/kg         © 05/05/17 07:53         05/07/17 00:36           Atrazine         ND         3900         1400         ug/kg         © 05/05/17 07:53         05/07/17 00:36           Benzaldehyde         ND         3900         3100         ug/kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[a]anthracene         530         J         3900         390         ug/kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[a]pyrene         ND         3900         570         ug/kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[k]fluoranthene         ND         3900         620         ug/kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[k]fluoranthene         ND         3900         410         ug/kg         © 05/05/17 07:53         05/07/17 00:36	
Acenaphthylene ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Acetophenone ND 3900 530 ug/Kg 05/05/17 07:53 05/07/17 00:36 Anthracene ND 3900 960 ug/Kg 05/05/17 07:53 05/07/17 00:36 Anthracene ND 3900 1400 ug/Kg 05/05/17 07:53 05/07/17 00:36 Atrazine ND 3900 1400 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzaldehyde ND 3900 3100 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[a]anthracene 530 J 3900 390 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[a]pyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[b]fluoranthene ND 3900 620 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[b]fluoranthene ND 3900 410 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[k]fluoranthene ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[k]fluoranthene ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[k]fluoranthene ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[k]fluoranthene ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-chloroethoxy)methane ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-chlylhexyl) phthalate ND 3900 640 ug/Kg 05/05/17 07:53 05/07/17 00:36 Butyl benzyl phthalate ND 3900 640 ug/Kg 05/05/17 07:53 05/07/17 00:36 Butyl benzyl phthalate ND 3900 640 ug/Kg 05/05/17 07:53 05/07/17 00:36 Butyl benzyl phthalate ND 3900 640 ug/Kg 05/05/17 07:53 05/07/17 00:36 Butyl benzyl phthalate	
Acetophenone         ND         3900         530         ug/Kg         © 5/05/17 07:53         05/07/17 00:36           Anthracene         ND         3900         960         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Atrazine         ND         3900         1400         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzaldehyde         ND         3900         3100         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[a]anthracene         530         J         3900         390         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[a]pyrene         ND         3900         570         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[bjfluoranthene         ND         3900         620         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[kjfluoranthene         ND         3900         410         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[kjfluoranthene         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[kjfluoranthene         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17	
Anthracene ND 3900 960 ug/Kg 505/05/17 07:53 05/07/17 00:36 Atrazine ND 3900 1400 ug/Kg 505/05/17 07:53 05/07/17 00:36 Benzaldehyde ND 3900 3100 ug/Kg 505/05/17 07:53 05/07/17 00:36 Benzo[a]anthracene 530 J 3900 390 ug/Kg 505/05/17 07:53 05/07/17 00:36 Benzo[a]pyrene ND 3900 570 ug/Kg 505/05/17 07:53 05/07/17 00:36 Benzo[b]fluoranthene ND 3900 620 ug/Kg 505/05/17 07:53 05/07/17 00:36 Benzo[g,h,i]perylene ND 3900 410 ug/Kg 505/05/17 07:53 05/07/17 00:36 Benzo[k]fluoranthene ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Benzo[k]fluoranthene ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethoxy)methane ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 505/05/17 07:53 0	
Atrazine ND 3900 1400 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzaldehyde ND 3900 3100 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[a]anthracene 530 J 3900 390 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[a]pyrene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[b]filuoranthene ND 3900 620 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[g,h,i]perylene ND 3900 410 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[k]filuoranthene ND 3900 410 ug/Kg 05/05/17 07:53 05/07/17 00:36 Benzo[k]filuoranthene ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-chloroethoxy)methane ND 3900 830 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-chloroethyl)ether ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Bis(2-ethylhexyl) phthalate ND 3900 1300 ug/Kg 05/05/17 07:53 05/07/17 00:36 Butyl benzyl phthalate ND 3900 640 ug/Kg 05/05/17 07:53 05/07/17 00:36 Caprolactam ND 3900 1200 ug/Kg 05/05/17 07:53 05/07/17 00:36	
Benzaldehyde         ND         3900         3100         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[a]anthracene         530         J         3900         390         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[a]pyrene         ND         3900         570         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[g,h,i]perylene         ND         3900         620         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[k]fluoranthene         ND         3900         410         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethoxy)methane         ND         3900         830         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethyl)ether         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-ethylhexyl) phthalate         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Butyl benzyl phthalate         ND         3900         640         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Caprolactam         ND         3900         1200         ug/Kg         © 0	
Benzo[a]anthracene         530 J         3900         390 ug/Kg         05/05/17 07:53         05/07/17 00:36           Benzo[a]pyrene         ND         3900         570 ug/Kg         05/05/17 07:53         05/07/17 00:36           Benzo[b]fluoranthene         ND         3900         620 ug/Kg         05/05/17 07:53         05/07/17 00:36           Benzo[g,h,i]perylene         ND         3900         410 ug/Kg         05/05/17 07:53         05/07/17 00:36           Benzo[k]fluoranthene         ND         3900         510 ug/Kg         05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethoxy)methane         ND         3900         830 ug/Kg         05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethyl)ether         ND         3900         510 ug/Kg         05/05/17 07:53         05/07/17 00:36           Bis(2-ethylhexyl) phthalate         ND         3900         1300 ug/Kg         05/05/17 07:53         05/07/17 00:36           Butyl benzyl phthalate         ND         3900         640 ug/Kg         05/05/17 07:53         05/07/17 00:36           Caprolactam         ND         3900         1200 ug/Kg         05/05/17 07:53         05/07/17 00:36	
Benzo[a]pyrene         ND         3900         570         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[b]fluoranthene         ND         3900         620         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[g,h,i]perylene         ND         3900         410         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[k]fluoranthene         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethoxy)methane         ND         3900         830         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethyl)ether         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-ethylhexyl) phthalate         ND         3900         1300         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Butyl benzyl phthalate         ND         3900         640         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Caprolactam         ND         3900         1200         ug/Kg         © 05/05/17 07:53         05/07/17 00:36	:36 20
Benzo[b]fluoranthene         ND         3900         620 ug/Kg         05/05/17 07:53         05/07/17 00:36           Benzo[g,h,i]perylene         ND         3900         410 ug/Kg         05/05/17 07:53         05/07/17 00:36           Benzo[k]fluoranthene         ND         3900         510 ug/Kg         05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethoxy)methane         ND         3900         830 ug/Kg         05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethyl)ether         ND         3900         510 ug/Kg         05/05/17 07:53         05/07/17 00:36           Bis(2-ethylhexyl) phthalate         ND         3900         1300 ug/Kg         05/05/17 07:53         05/07/17 00:36           Butyl benzyl phthalate         ND         3900         640 ug/Kg         05/05/17 07:53         05/07/17 00:36           Caprolactam         ND         3900         1200 ug/Kg         05/05/17 07:53         05/07/17 00:36	
Benzo[g,h,i]perylene         ND         3900         410         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Benzo[k]fluoranthene         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethoxy)methane         ND         3900         830         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethyl)ether         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-ethylhexyl) phthalate         ND         3900         1300         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Butyl benzyl phthalate         ND         3900         640         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Caprolactam         ND         3900         1200         ug/Kg         © 05/05/17 07:53         05/07/17 00:36	
Benzo[k]fluoranthene         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethoxy)methane         ND         3900         830         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethyl)ether         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-ethylhexyl) phthalate         ND         3900         1300         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Butyl benzyl phthalate         ND         3900         640         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Caprolactam         ND         3900         1200         ug/Kg         © 05/05/17 07:53         05/07/17 00:36	
Bis(2-chloroethoxy)methane         ND         3900         830         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-chloroethyl)ether         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-ethylhexyl) phthalate         ND         3900         1300         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Butyl benzyl phthalate         ND         3900         640         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Caprolactam         ND         3900         1200         ug/Kg         © 05/05/17 07:53         05/07/17 00:36	
Bis(2-chloroethyl)ether         ND         3900         510         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Bis(2-ethylhexyl) phthalate         ND         3900         1300         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Butyl benzyl phthalate         ND         3900         640         ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Caprolactam         ND         3900         1200         ug/Kg         © 05/05/17 07:53         05/07/17 00:36	
Bis(2-ethylhexyl) phthalate         ND         3900         1300         ug/Kg         * 05/05/17 07:53         05/07/17 00:36           Butyl benzyl phthalate         ND         3900         640         ug/Kg         * 05/05/17 07:53         05/07/17 00:36           Caprolactam         ND         3900         1200         ug/Kg         * 05/05/17 07:53         05/07/17 00:36	
Butyl benzyl phthalate         ND         3900         640 ug/Kg         © 05/05/17 07:53         05/07/17 00:36           Caprolactam         ND         3900         1200 ug/Kg         © 05/05/17 07:53         05/07/17 00:36	
Caprolactam ND 3900 1200 ug/Kg © 05/05/17 07:53 05/07/17 00:36	
Carbazole ND 3900 460 ug/Kg 🌣 05/05/17 07:53 05/07/17 00:36	
Chrysene ND 3900 870 ug/Kg 05/05/17 07:53 05/07/17 00:36	

TestAmerica Buffalo

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5/17/2017

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Client Sample ID: SS-6 Lab Sample ID: 480-117313-6

Date Collected: 05/02/17 11:00

Matrix: Solid

Date Received: 05/02/17 15:00

Lab Sample ID: 480-117313-6

Matrix: Solid

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued) Result Qualifier MDL D Dil Fac Analyte Unit Prepared Analyzed ND 3900 05/05/17 07:53 05/07/17 00:36 Dibenz(a,h)anthracene 690 ug/Kg 20 Di-n-butyl phthalate 3900 ND 05/05/17 07:53 05/07/17 00:36 20 670 ug/Kg ā Di-n-octyl phthalate ND 3900 460 ug/Kg 05/05/17 07:53 05/07/17 00:36 20 Dibenzofuran ND 3900 05/05/17 07:53 05/07/17 00:36 20 460 ug/Kg ₩ Diethyl phthalate ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 20 Dimethyl phthalate ND 3900 ug/Kg 05/05/17 07:53 20 460 05/07/17 00:36 ₩ 1100 3900 410 ug/Kg 05/05/17 07:53 05/07/17 00:36 20 **Fluoranthene** ġ ND 3900 05/05/17 07:53 20 Fluorene 460 ug/Kg 05/07/17 00:36 φ Hexachlorobenzene ND 3900 530 ug/Kg 05/05/17 07:53 05/07/17 00:36 20 Hexachlorobutadiene ND 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 20 # ND Hexachlorocyclopentadiene 3900 530 ug/Kg 05/05/17 07:53 05/07/17 00:36 20 à 05/05/17 07:53 20 Hexachloroethane ND 3900 510 ug/Kg 05/07/17 00:36 Indeno[1,2,3-cd]pyrene ND 3900 480 ug/Kg 05/05/17 07:53 05/07/17 00:36 20 Isophorone ND 3900 830 ug/Kg 05/05/17 07:53 05/07/17 00:36 20 ND 20 3900 670 05/05/17 07:53 05/07/17 00:36 N-Nitrosodi-n-propylamine ug/Kg ä N-Nitrosodiphenylamine ND 3900 3200 05/05/17 07:53 05/07/17 00:36 20 ug/Kg 20 Naphthalene ND 3900 510 ug/Kg 05/05/17 07:53 05/07/17 00:36 Nitrobenzene ND 3900 05/05/17 07:53 05/07/17 00:36 20 ug/Kg ND 7600 05/05/17 07:53 20 Pentachlorophenol 3900 ug/Kg 05/07/17 00:36 ₩ **Phenanthrene** 780 3900 570 ug/Kg 05/05/17 07:53 05/07/17 00:36 20 ₽ Phenol ND 3900 600 ug/Kg 05/05/17 07:53 05/07/17 00:36 20 05/05/17 07:53 20 **Pyrene** 780 3900 460 ug/Kg 05/07/17 00:36

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	106		53 - 120	05/05/17 07:53	05/07/17 00:36	20
Phenol-d5 (Surr)	57		54 - 120	05/05/17 07:53	05/07/17 00:36	20
p-Terphenyl-d14 (Surr)	73		65 - 121	05/05/17 07:53	05/07/17 00:36	20
2,4,6-Tribromophenol (Surr)	158	Χ	54 - 120	05/05/17 07:53	05/07/17 00:36	20
2-Fluorobiphenyl	60		60 - 120	05/05/17 07:53	05/07/17 00:36	20
2-Fluorophenol (Surr)	57		52 - 120	05/05/17 07:53	05/07/17 00:36	20

Method: 8081B - Organochlorine Pesticides (GC) RL Dil Fac Result Qualifier MDL Unit D Prepared Analyzed Analyte ₩ 4,4'-DDD 1.9 0.37 05/03/17 07:59 05/04/17 20:12 2.4 ug/Kg 4,4'-DDE 05/03/17 07:59 05/04/17 20:12 1.6 1.9 0.40 ug/Kg 4,4'-DDT 4.5 1.9 0.44 ug/Kg ₽ 05/03/17 07:59 05/04/17 20:12 Aldrin ND 1.9 0.47 ug/Kg ₽ 05/03/17 07:59 05/04/17 20:12 ġ alpha-BHC ND 1.9 0.34 ug/Kg 05/03/17 07:59 05/04/17 20:12 ug/Kg alpha-Chlordane ND 1.9 0.94 05/03/17 07:59 05/04/17 20:12 φ beta-BHC ND 1.9 0.34 ug/Kg 05/03/17 07:59 05/04/17 20:12 ₽ delta-BHC ND 1.9 0.35 05/03/17 07:59 05/04/17 20:12 ug/Kg ₩ Dieldrin ND 1.9 0.46 ug/Kg 05/03/17 07:59 05/04/17 20:12 ġ Endosulfan ND 1.9 0.36 ug/Kg 05/03/17 07:59 05/04/17 20:12 Endosulfan II ND 05/03/17 07:59 05/04/17 20:12 1.9 0.34 ug/Kg ND 1.9 0.35 ₿ 05/03/17 07:59 05/04/17 20:12 Endosulfan sulfate ug/Kg Endrin ND 05/04/17 20:12 19 0.38 ug/Kg 05/03/17 07:59 Endrin aldehyde ND 1.9 0.48 05/03/17 07:59 05/04/17 20:12 ug/Kg Endrin ketone ND 1.9 0.47 05/03/17 07:59 05/04/17 20:12 ug/Kg ġ gamma-BHC (Lindane) ND 1.9 0.35 ug/Kg 05/03/17 07:59 05/04/17 20:12 gamma-Chlordane ND 19 0.60 ug/Kg 05/03/17 07:59 05/04/17 20:12

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TestAmerica Job ID: 480-117313-1

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Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Lab Sample ID: 480-117313-6 **Client Sample ID: SS-6** 

Date Collected: 05/02/17 11:00 Matrix: Solid

Date Received: 05/02/17 15:00 Percent Solids: 85.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.41	ug/Kg	₩	05/03/17 07:59	05/04/17 20:12	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	₽	05/03/17 07:59	05/04/17 20:12	1
Methoxychlor	0.62	J	1.9	0.39	ug/Kg	₽	05/03/17 07:59	05/04/17 20:12	1
Toxaphene	ND		19	11	ug/Kg	₩	05/03/17 07:59	05/04/17 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		45 - 120				05/03/17 07:59	05/04/17 20:12	1
DCB Decachlorobiphenyl	102		45 - 120				05/03/17 07:59	05/04/17 20:12	1
Tetrachloro-m-xylene	71		30 - 124				05/03/17 07:59	05/04/17 20:12	1
Tetrachloro-m-xylene	57		30 - 124				05/03/17 07:59	05/04/17 20:12	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.055	mg/Kg	<del></del>	05/03/17 13:40	05/04/17 03:22	1
PCB-1221	ND		0.28	0.055	mg/Kg	₽	05/03/17 13:40	05/04/17 03:22	1
PCB-1232	ND		0.28	0.055	mg/Kg	₽	05/03/17 13:40	05/04/17 03:22	1
PCB-1242	ND		0.28	0.055	mg/Kg	₽	05/03/17 13:40	05/04/17 03:22	1
PCB-1248	ND		0.28	0.055	mg/Kg	₽	05/03/17 13:40	05/04/17 03:22	1
PCB-1254	ND		0.28	0.13	mg/Kg	₽	05/03/17 13:40	05/04/17 03:22	1
PCB-1260	ND		0.28	0.13	mg/Kg	₽	05/03/17 13:40	05/04/17 03:22	1
PCB-1262	ND		0.28	0.13	mg/Kg	₽	05/03/17 13:40	05/04/17 03:22	1
PCB-1268	ND		0.28	0.13	mg/Kg	₽	05/03/17 13:40	05/04/17 03:22	1
•	0/ 8	O					D	A I I	57.5

Surrogate	%Recovery	Qualifier	Limits	Prepa	red	Analyzed	Dil Fac
Tetrachloro-m-xylene	118		60 - 154	05/03/17	13:40	05/04/17 03:22	1
Tetrachloro-m-xylene	105		60 - 154	05/03/17	13:40	05/04/17 03:22	1
DCB Decachlorobiphenyl	119		65 - 174	05/03/17	13:40	05/04/17 03:22	1
DCB Decachlorobiphenyl	107		65 - 174	05/03/17	13:40	05/04/17 03:22	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18000		12.1	5.3	mg/Kg	₩	05/09/17 10:01	05/12/17 21:15	1
Antimony	ND		18.1	0.48	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Arsenic	5.0		2.4	0.48	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Barium	109		0.60	0.13	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Beryllium	0.72		0.24	0.034	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Cadmium	0.40		0.24	0.036	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Calcium	16800	В	60.4	4.0	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Chromium	21.8		0.60	0.24	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Cobalt	9.3		0.60	0.060	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Copper	17.6		1.2	0.25	mg/Kg	φ.	05/09/17 10:01	05/12/17 21:15	1
Iron	19100		12.1	4.2	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Lead	44.7		1.2	0.29	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Magnesium	6180		24.2	1.1	mg/Kg	φ.	05/09/17 10:01	05/12/17 21:15	1
Manganese	514	В	0.24	0.039	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Nickel	19.4		6.0	0.28	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Potassium	3480		36.3	24.2	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Selenium	ND		4.8	0.48	mg/Kg	₽	05/09/17 10:01	05/12/17 21:15	1
Silver	ND		0.73	0.24	mg/Kg	₽	05/09/17 10:01	05/15/17 21:49	1
Sodium	125	J	169	15.7	mg/Kg	₩.	05/09/17 10:01	05/12/17 21:15	1

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TestAmerica Job ID: 480-117313-1

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

TestAmerica Job ID: 480-117313-1

**Client Sample ID: SS-6** 

Date Collected: 05/02/17 11:00 Date Received: 05/02/17 15:00 Lab Sample ID: 480-117313-6

Matrix: Solid

Percent Solids: 85.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Thallium	ND		7.3	0.36	mg/Kg	₩	05/09/17 10:01	05/12/17 21:15	
Vanadium	36.2		0.60	0.13	mg/Kg	₩	05/09/17 10:01	05/12/17 21:15	
Zinc	107		2.4	0.77	mg/Kg	*	05/09/17 10:01	05/12/17 21:15	
Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	0.044		0.022	0.0090	mg/Kg	<del>\</del>	05/03/17 12:45	05/03/17 14:32	-

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Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Lab Sample ID: 480-117313-7

TestAmerica Job ID: 480-117313-1

**Client Sample ID: SS-7** Date Collected: 05/02/17 11:10 Matrix: Solid Date Received: 05/02/17 15:00 Percent Solids: 94.2

Mothodi 9260C Valatila Organia	Compound-	by CC/MC							
Method: 8260C - Volatile Organic Analyte		Dy GC/MS  Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	F1 -	0.95	0.36	ug/Kg	<del></del>	05/04/17 13:43	05/13/17 23:20	
1,1,2,2-Tetrachloroethane	ND		0.95		ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	0.95		ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
1,1,2-Trichloroethane	ND		0.95		ug/Kg		05/04/17 13:43	05/13/17 23:20	· · · · · · .
1,1-Dichloroethane	ND	F1	0.95			₩	05/04/17 13:43	05/13/17 23:20	
1,1-Dichloroethene	ND	F1	0.95	0.39	ug/Kg	₽	05/04/17 13:43	05/13/17 23:20	
1,2,4-Trichlorobenzene	ND		0.95				05/04/17 13:43	05/13/17 23:20	
1,2-Dibromo-3-Chloropropane	ND	F1	0.95	0.45		₽	05/04/17 13:43	05/13/17 23:20	
1,2-Dibromoethane	ND	F1	0.95	0.11	ug/Kg	₽	05/04/17 13:43	05/13/17 23:20	
1,2-Dichlorobenzene	ND		0.95		ug/Kg		05/04/17 13:43	05/13/17 23:20	
1,2-Dichloroethane	ND	F1	0.95		ug/Kg	₽	05/04/17 13:43	05/13/17 23:20	
1,2-Dichloropropane	ND		0.95		ug/Kg	₽	05/04/17 13:43	05/13/17 23:20	
1,3-Dichlorobenzene	ND		0.95	0.11	ug/Kg		05/04/17 13:43	05/13/17 23:20	
1,4-Dichlorobenzene	ND		0.95		ug/Kg	₽	05/04/17 13:43	05/13/17 23:20	
1,4-Dioxane	ND		19		ug/Kg	₽	05/04/17 13:43	05/13/17 23:20	
2-Butanone (MEK)	ND		4.8		ug/Kg		05/04/17 13:43	05/13/17 23:20	
2-Hexanone	ND	F1	4.8			₩	05/04/17 13:43	05/13/17 23:20	
4-Methyl-2-pentanone (MIBK)	ND		4.8	2.1		₩	05/04/17 13:43	05/13/17 23:20	
Acetone	ND	F1 *	4.8	1.0	ug/Kg	· · · · · · · · · · · · · · · · · · ·	05/04/17 13:43	05/13/17 23:20	
Benzene	ND.	F1	0.95	0.19	ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
Bromodichloromethane	ND		0.95	0.36		₩	05/04/17 13:43	05/13/17 23:20	
Bromoform	ND		0.95	0.12			05/04/17 13:43	05/13/17 23:20	
Bromomethane	ND		0.95	0.12	ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
Carbon disulfide	ND	E1	0.95	0.41	ug/Kg ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
Carbon tetrachloride	ND		0.95	0.41	ug/Kg		05/04/17 13:43	05/13/17 23:20	
Chlorobenzene	ND		0.95			₩	05/04/17 13:43	05/13/17 23:20	
Chloroethane	ND	11	0.95		ug/Kg ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
Chloroform	ND		0.95		ug/Kg		05/04/17 13:43	05/13/17 23:20	
Chloromethane	ND ND	гі	0.95				05/04/17 13:43	05/13/17 23:20	
cis-1,2-Dichloroethene	ND ND	E1	0.95			₩	05/04/17 13:43	05/13/17 23:20	
	ND		0.95				05/04/17 13:43	05/13/17 23:20	
cis-1,3-Dichloropropene					ug/Kg	₩			
Cyclohexane		F1 F2	0.95		ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
Dibromochloromethane	ND	F1	0.95		ug/Kg		05/04/17 13:43	05/13/17 23:20	
Dichlorodifluoromethane	ND	Γ4	0.95	0.31	ug/Kg	<b>₩</b>	05/04/17 13:43	05/13/17 23:20	
Ethylbenzene	ND		0.95		ug/Kg		05/04/17 13:43	05/13/17 23:20	
sopropylbenzene	ND		0.95		ug/Kg	<sub>.</sub>	05/04/17 13:43	05/13/17 23:20	
Methyl acetate	ND		4.8		ug/Kg	ψ.	05/04/17 13:43	05/13/17 23:20	
Methyl tert-butyl ether	ND		0.95		ug/Kg	<b>☆</b>	05/04/17 13:43	05/13/17 23:20	
Methylcyclohexane	ND		0.95		ug/Kg	<u></u>	05/04/17 13:43	05/13/17 23:20	
Methylene Chloride	0.69		0.95		ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
Styrene	ND		0.95		ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
Fetrachloroethene	ND		0.95		ug/Kg	J	05/04/17 13:43	05/13/17 23:20	
Toluene	ND		0.95		ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
rans-1,2-Dichloroethene		F1	0.95		ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
rans-1,3-Dichloropropene	ND		0.95		ug/Kg		05/04/17 13:43	05/13/17 23:20	
Trichloroethene	ND	F1	0.95		ug/Kg	*	05/04/17 13:43	05/13/17 23:20	
Trichlorofluoromethane	ND		0.95		ug/Kg	<b>#</b>	05/04/17 13:43	05/13/17 23:20	
Vinyl chloride	ND		0.95		ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	
Xylenes, Total	ND	F1	1.9	0.10	ug/Kg	₩	05/04/17 13:43	05/13/17 23:20	

TestAmerica Buffalo

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Client Sample ID: SS-7 Lab Sample ID: 480-117313-7

Date Collected: 05/02/17 11:10 Date Received: 05/02/17 15:00 Matrix: Solid

Percent Solids: 94.2

TestAmerica Job ID: 480-117313-1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 05/13/17 23:20 1,2-Dichloroethane-d4 (Surr) 105 78 - 135 05/04/17 13:43 4-Bromofluorobenzene 126 67 - 126 05/04/17 13:43 05/13/17 23:20 Dibromofluoromethane (Surr) 116 61 - 149 05/04/17 13:43 05/13/17 23:20 Toluene-d8 (Surr) 84 73 - 121 05/04/17 13:43 05/13/17 23:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Biphenyl	ND		880	130	ug/Kg	<u> </u>	05/05/17 07:53	05/06/17 18:54	
ois (2-chloroisopropyl) ether	ND		880	180	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
2,4,5-Trichlorophenol	ND		880	240	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
2,4,6-Trichlorophenol	ND		880	180	ug/Kg		05/05/17 07:53	05/06/17 18:54	
2,4-Dichlorophenol	ND		880	93	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
2,4-Dimethylphenol	ND		880	210	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
2,4-Dinitrophenol	ND		8600	4100	ug/Kg	\$	05/05/17 07:53	05/06/17 18:54	
2,4-Dinitrotoluene	ND		880	180	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
2,6-Dinitrotoluene	ND		880	100	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
2-Chloronaphthalene	ND		880	140	ug/Kg	\$	05/05/17 07:53	05/06/17 18:54	
2-Chlorophenol	ND		880	160	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
2-Methylphenol	ND		880	100	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
2-Methylnaphthalene	ND		880	180	ug/Kg		05/05/17 07:53	05/06/17 18:54	
2-Nitroaniline	ND		1700	130	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
2-Nitrophenol	ND		880	250	ug/Kg	₩	05/05/17 07:53	05/06/17 18:54	
3,3'-Dichlorobenzidine	ND		1700	1000	ug/Kg	φ.	05/05/17 07:53	05/06/17 18:54	
3-Nitroaniline	ND		1700	240	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
I,6-Dinitro-2-methylphenol	ND		1700	880	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
-Bromophenyl phenyl ether	ND		880	120	ug/Kg	ф.	05/05/17 07:53	05/06/17 18:54	
I-Chloro-3-methylphenol	ND		880	220	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
I-Chloroaniline	ND		880	220	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
I-Chlorophenyl phenyl ether	ND		880	110	ug/Kg		05/05/17 07:53	05/06/17 18:54	
I-Methylphenol	ND		1700	100	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
I-Nitroaniline	ND		1700	460	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
I-Nitrophenol	ND		1700	620	ug/Kg		05/05/17 07:53	05/06/17 18:54	
Acenaphthene	ND		880	130	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
Acenaphthylene	ND		880	110	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
Acetophenone	ND		880		ug/Kg		05/05/17 07:53	05/06/17 18:54	
Anthracene	ND	F2	880		ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
Atrazine	ND		880		ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
Benzaldehyde	ND		880		ug/Kg		05/05/17 07:53	05/06/17 18:54	
Benzo[a]anthracene	720	J F2 F1	880	88	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
Benzo[a]pyrene		J F2 F1	880	130	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
Benzo[b]fluoranthene	810	J F2 F1	880	140	ug/Kg	ф	05/05/17 07:53	05/06/17 18:54	
Benzo[g,h,i]perylene		J F2	880		ug/Kg	₩	05/05/17 07:53	05/06/17 18:54	
Benzo[k]fluoranthene		J F2 F1	880		ug/Kg	₩	05/05/17 07:53	05/06/17 18:54	
Bis(2-chloroethoxy)methane	ND	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	880	190	ug/Kg		05/05/17 07:53	05/06/17 18:54	
Bis(2-chloroethyl)ether	ND		880		ug/Kg	₩	05/05/17 07:53	05/06/17 18:54	
Bis(2-ethylhexyl) phthalate	ND		880			₩	05/05/17 07:53	05/06/17 18:54	
Butyl benzyl phthalate	ND		880			 ☆	05/05/17 07:53	05/06/17 18:54	
Caprolactam	ND		880		ug/Kg	₩	05/05/17 07:53	05/06/17 18:54	
Carbazole	ND		880		ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	
Chrysene		J F2 F1	880		ug/Kg		05/05/17 07:53	05/06/17 18:54	

TestAmerica Buffalo

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Client: New York State D.E.C.

2,4,6-Tribromophenol (Surr)

2-Fluorobiphenyl

Project/Site: Highland Plaza - OffSite C915293A

Client Sample ID: SS-7 Lab Sample ID: 480-117313-7

Date Collected: 05/02/17 11:10 Matrix: Solid Date Received: 05/02/17 15:00 Percent Solids: 94.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND	F2	880	160	ug/Kg	₩	05/05/17 07:53	05/06/17 18:54	5
Di-n-butyl phthalate	ND		880	150	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Di-n-octyl phthalate	ND		880	100	ug/Kg	\$	05/05/17 07:53	05/06/17 18:54	5
Dibenzofuran	ND		880	100	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Diethyl phthalate	ND		880	110	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Dimethyl phthalate	ND		880	100	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Fluoranthene	1500	F2 F1	880	93	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Fluorene	ND		880	100	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Hexachlorobenzene	ND		880	120	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Hexachlorobutadiene	ND		880	130	ug/Kg	₩	05/05/17 07:53	05/06/17 18:54	5
Hexachlorocyclopentadiene	ND		880	120	ug/Kg	₩	05/05/17 07:53	05/06/17 18:54	5
Hexachloroethane	ND		880	110	ug/Kg	<b>\$</b>	05/05/17 07:53	05/06/17 18:54	5
Indeno[1,2,3-cd]pyrene	430	J F2	880	110	ug/Kg	₩	05/05/17 07:53	05/06/17 18:54	5
Isophorone	ND		880	190	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
N-Nitrosodi-n-propylamine	ND		880	150	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
N-Nitrosodiphenylamine	ND		880	710	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Naphthalene	ND		880	110	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Nitrobenzene	ND		880	98	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Pentachlorophenol	ND		1700	880	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Phenanthrene	760	J F2 F1	880	130	ug/Kg	₩	05/05/17 07:53	05/06/17 18:54	5
Phenol	ND		880	130	ug/Kg	₽	05/05/17 07:53	05/06/17 18:54	5
Pyrene	1500	F2 F1	880	100	ug/Kg	\$	05/05/17 07:53	05/06/17 18:54	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	77		53 - 120				05/05/17 07:53	05/06/17 18:54	5
Phenol-d5 (Surr)	66		54 - 120				05/05/17 07:53	05/06/17 18:54	5
p-Terphenyl-d14 (Surr)	82		65 - 121				05/05/17 07:53	05/06/17 18:54	5

2-Fluorophenol (Surr)	63		52 - 120				05/05/17 07:53	05/06/17 18:54	5
- Method: 8081B - Organochlor	ine Pesticides (GC	C)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.3	J	1.8	0.34	ug/Kg	<del></del>	05/03/17 07:59	05/04/17 20:32	1
4,4'-DDE	3.0		1.8	0.37	ug/Kg	₩	05/03/17 07:59	05/04/17 20:32	1
4,4'-DDT	4.2		1.8	0.41	ug/Kg	₩	05/03/17 07:59	05/04/17 20:32	1
Aldrin	ND		1.8	0.43	ug/Kg	\$	05/03/17 07:59	05/04/17 20:32	1
alpha-BHC	ND		1.8	0.32	ug/Kg	₽	05/03/17 07:59	05/04/17 20:32	1
alpha-Chlordane	ND		1.8	0.88	ug/Kg	₽	05/03/17 07:59	05/04/17 20:32	1
beta-BHC	ND		1.8	0.32	ug/Kg	₩	05/03/17 07:59	05/04/17 20:32	1
delta-BHC	ND		1.8	0.33	ug/Kg	₽	05/03/17 07:59	05/04/17 20:32	1
Dieldrin	ND		1.8	0.42	ug/Kg	₽	05/03/17 07:59	05/04/17 20:32	1
Endosulfan I	ND		1.8	0.34	ug/Kg	₩	05/03/17 07:59	05/04/17 20:32	1
Endosulfan II	ND		1.8	0.32	ug/Kg	₩	05/03/17 07:59	05/04/17 20:32	1
Endosulfan sulfate	ND		1.8	0.33	ug/Kg	₩	05/03/17 07:59	05/04/17 20:32	1
Endrin	ND		1.8	0.35	ug/Kg		05/03/17 07:59	05/04/17 20:32	1
Endrin aldehyde	ND		1.8	0.45	ug/Kg	₩	05/03/17 07:59	05/04/17 20:32	1
Endrin ketone	ND		1.8	0.43	ug/Kg	₽	05/03/17 07:59	05/04/17 20:32	1
gamma-BHC (Lindane)	ND		1.8	0.32	ug/Kg		05/03/17 07:59	05/04/17 20:32	1
gamma-Chlordane	ND		1.8	0.56	ug/Kg	₩	05/03/17 07:59	05/04/17 20:32	1

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TestAmerica Job ID: 480-117313-1

05/05/17 07:53

05/05/17 07:53

05/06/17 18:54

05/06/17 18:54

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Client Sample ID: SS-7 Lab Sample ID: 480-117313

Lab Sample ID: 480-117313-7 Matrix: Solid

TestAmerica Job ID: 480-117313-1

Percent Solids: 94.2

Date Collected: 05/02/17 11:10	
Date Received: 05/02/17 15:00	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.8	0.38	ug/Kg	₽	05/03/17 07:59	05/04/17 20:32	1
Heptachlor epoxide	ND		1.8	0.45	ug/Kg	₽	05/03/17 07:59	05/04/17 20:32	1
Methoxychlor	ND		1.8	0.36	ug/Kg	₩	05/03/17 07:59	05/04/17 20:32	1
Toxaphene	ND		18	10	ug/Kg	₽	05/03/17 07:59	05/04/17 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81		45 - 120				05/03/17 07:59	05/04/17 20:32	1
DCB Decachlorobiphenyl	131	Χ	45 - 120				05/03/17 07:59	05/04/17 20:32	1
Tetrachloro-m-xylene	69		30 - 124				05/03/17 07:59	05/04/17 20:32	1
Tetrachloro-m-xylene	58		30 - 124				05/03/17 07:59	05/04/17 20:32	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	<del>\</del>	05/03/17 13:40	05/04/17 03:38	1
PCB-1221	ND		0.22	0.043	mg/Kg	₽	05/03/17 13:40	05/04/17 03:38	1
PCB-1232	ND		0.22	0.043	mg/Kg	₽	05/03/17 13:40	05/04/17 03:38	1
PCB-1242	ND		0.22	0.043	mg/Kg	₽	05/03/17 13:40	05/04/17 03:38	1
PCB-1248	ND		0.22	0.043	mg/Kg	₽	05/03/17 13:40	05/04/17 03:38	1
PCB-1254	ND		0.22	0.10	mg/Kg	₽	05/03/17 13:40	05/04/17 03:38	1
PCB-1260	ND		0.22	0.10	mg/Kg	₽	05/03/17 13:40	05/04/17 03:38	1
PCB-1262	ND		0.22	0.10	mg/Kg	₽	05/03/17 13:40	05/04/17 03:38	1
PCB-1268	ND		0.22	0.10	mg/Kg	₽	05/03/17 13:40	05/04/17 03:38	1

Surrogate	%Recovery (	Qualifier Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	138	60 - 154	05/03/17 13:40	05/04/17 03:38	1
Tetrachloro-m-xylene	127	60 - 154	05/03/17 13:40	05/04/17 03:38	1
DCB Decachlorobiphenyl	140	65 - 174	05/03/17 13:40	05/04/17 03:38	1
DCB Decachlorobiphenyl	128	65 - 174	05/03/17 13:40	05/04/17 03:38	1

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14900	<u> </u>	11.0	4.8	mg/Kg	<u></u>	05/09/17 10:01	05/12/17 21:18	1
Antimony	ND	F1	16.5	0.44	mg/Kg	₩	05/09/17 10:01	05/12/17 21:18	1
Arsenic	3.5		2.2	0.44	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Barium	93.0	F1	0.55	0.12	mg/Kg	₩	05/09/17 10:01	05/12/17 21:18	1
Beryllium	0.63		0.22	0.031	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Cadmium	0.33		0.22	0.033	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Calcium	36400	B F2	55.0	3.6	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Chromium	19.0		0.55	0.22	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Cobalt	7.9		0.55	0.055	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Copper	17.5		1.1	0.23	mg/Kg	<b>\$</b>	05/09/17 10:01	05/12/17 21:18	1
Iron	15700		11.0	3.8	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Lead	19.0		1.1	0.26	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Magnesium	10200		22.0	1.0	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Manganese	373	B F2	0.22	0.035	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Nickel	18.5		5.5	0.25	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Potassium	3530	F1	33.0	22.0	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Selenium	ND		4.4	0.44	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1
Silver	ND		0.66	0.22	mg/Kg	₽	05/09/17 10:01	05/15/17 21:53	1
Sodium	152	J	154	14.3	mg/Kg	₽	05/09/17 10:01	05/12/17 21:18	1

TestAmerica Buffalo

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Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Lab Sample ID: 480-117313-7

TestAmerica Job ID: 480-117313-1

Client Sample ID: SS-7

Date Received: 05/02/17 15:00

Date Collected: 05/02/17 11:10

Matrix: Solid

Percent Solids: 94.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		6.6	0.33	mg/Kg	<del>\</del>	05/09/17 10:01	05/12/17 21:18	1
Vanadium	29.1		0.55	0.12	mg/Kg	₩	05/09/17 10:01	05/12/17 21:18	1
Zinc	82.9	F1	2.2	0.70	mg/Kg	₩.	05/09/17 10:01	05/12/17 21:18	1

Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020	0.0079	mg/Kg	<del>\</del>	05/03/17 12:45	05/03/17 14:36	1

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Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Client Sample ID: SS-8 Lab Sample ID: 480-117313-8

 Date Collected: 05/02/17 09:30
 Matrix: Solid

 Date Received: 05/02/17 15:00
 Percent Solids: 89.0

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND ND	1.0	0.40	ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
1,1,2,2-Tetrachloroethane	ND	1.0	0.18	ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.46	ug/Kg	☼	05/04/17 13:47	05/12/17 13:14	
1,1,2-Trichloroethane	ND	1.0	0.29	ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
1,1-Dichloroethane	ND	1.0	0.36	ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
1,1-Dichloroethene	ND	1.0	0.43	ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
1,2,4-Trichlorobenzene	ND	1.0	0.34	ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
1,2-Dibromo-3-Chloropropane	ND	1.0	0.49	ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
1,2-Dibromoethane	ND	1.0	0.13	ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
1,2-Dichlorobenzene	ND	1.0	0.15	ug/Kg		05/04/17 13:47	05/12/17 13:14	
1,2-Dichloroethane	ND	1.0	0.12	ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
1,2-Dichloropropane	ND	1.0	0.18	ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
1,3-Dichlorobenzene	ND	1.0	0.13	ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
1,4-Dichlorobenzene	ND	1.0		ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
1,4-Dioxane	ND	21		ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
2-Butanone (MEK)	ND	5.2		ug/Kg		05/04/17 13:47	05/12/17 13:14	
2-Hexanone	ND	5.2		ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
4-Methyl-2-pentanone (MIBK)	ND	5.2		ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
Acetone	ND	5.2	1.1	ug/Kg		05/04/17 13:47	05/12/17 13:14	
Benzene	ND	1.0	0.21	ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
Bromodichloromethane	ND	1.0	0.40	ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
Bromoform	ND	1.0		ug/Kg		05/04/17 13:47	05/12/17 13:14	
Bromomethane	ND	1.0		ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
Carbon disulfide	ND	1.0		ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
Carbon tetrachloride	ND	1.0		ug/Kg		05/04/17 13:47	05/12/17 13:14	
Chlorobenzene	ND	1.0		ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
Chloroethane	ND	1.0		ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
Chloroform	ND	1.0		ug/Kg		05/04/17 13:47	05/12/17 13:14	
Chloromethane	ND *	1.0		ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
cis-1,2-Dichloroethene	ND	1.0		ug/Kg	₩	05/04/17 13:47	05/12/17 13:14	
cis-1,3-Dichloropropene	ND	1.0		ug/Kg		05/04/17 13:47	05/12/17 13:14	
Cyclohexane	ND	1.0		ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
Dibromochloromethane	ND	1.0		ug/Kg ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	
Dichlorodifluoromethane	ND ND	1.0		ug/Kg ug/Kg	· · · · · · · · · · · · · · · · · · ·	05/04/17 13:47	05/12/17 13:14	
Ethylbenzene	ND	1.0		ug/Kg ug/Kg		05/04/17 13:47	05/12/17 13:14	
					Ť.			
Isopropylbenzene	ND	1.0		ug/Kg		05/04/17 13:47 05/04/17 13:47	05/12/17 13:14	
Methyl text but I other	ND ND	5.2		ug/Kg ug/Kg	т Ф		05/12/17 13:14	
Methyl tert-butyl ether	ND	1.0			₩	05/04/17 13:47	05/12/17 13:14	
Methylcyclohexane	ND	1.0		ug/Kg		05/04/17 13:47	05/12/17 13:14	
Methylene Chloride	3.0	1.0		ug/Kg	<b>‡</b>	05/04/17 13:47	05/12/17 13:14	
Styrene	ND	1.0		ug/Kg	<b>‡</b>	05/04/17 13:47	05/12/17 13:14	
Tetrachloroethene	0.45 J	1.0		ug/Kg	<u>%</u> .	05/04/17 13:47	05/12/17 13:14	
Toluene	ND	1.0		ug/Kg	₽ *	05/04/17 13:47	05/12/17 13:14	
rans-1,2-Dichloroethene	ND	1.0		ug/Kg	<b>‡</b>	05/04/17 13:47	05/12/17 13:14	
rans-1,3-Dichloropropene	ND	1.0		ug/Kg		05/04/17 13:47	05/12/17 13:14	
Trichloroethene	ND	1.0		ug/Kg	ψ.	05/04/17 13:47	05/12/17 13:14	
Trichlorofluoromethane	ND	1.0		ug/Kg		05/04/17 13:47	05/12/17 13:14	
Vinyl chloride	ND	1.0		ug/Kg		05/04/17 13:47	05/12/17 13:14	
Xylenes, Total	ND	2.1	0.12	ug/Kg	₽	05/04/17 13:47	05/12/17 13:14	

TestAmerica Buffalo

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TestAmerica Job ID: 480-117313-1

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Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Client Sample ID: SS-8 Lab Sample ID: 480-117313-8

Date Collected: 05/02/17 09:30 Date Received: 05/02/17 15:00 Matrix: Solid

TestAmerica Job ID: 480-117313-1

Percent Solids: 89.0

Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	78 - 135	05/04/17 13:47	05/12/17 13:14	1
4-Bromofluorobenzene	93	67 - 126	05/04/17 13:47	05/12/17 13:14	1
Dibromofluoromethane (Surr)	116	61 - 149	05/04/17 13:47	05/12/17 13:14	1
Toluene-d8 (Surr)	96	73 - 121	05/04/17 13:47	05/12/17 13:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Biphenyl	ND		950	140	ug/Kg	<del>\</del>	05/05/17 07:53	05/07/17 01:02	
bis (2-chloroisopropyl) ether	ND		950	190	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
2,4,5-Trichlorophenol	ND		950		ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
2,4,6-Trichlorophenol	ND		950	190	ug/Kg		05/05/17 07:53	05/07/17 01:02	
2,4-Dichlorophenol	ND		950		ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
2,4-Dimethylphenol	ND		950	230	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
2,4-Dinitrophenol	ND		9300	4400	ug/Kg		05/05/17 07:53	05/07/17 01:02	
2,4-Dinitrotoluene	ND		950	200	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
2,6-Dinitrotoluene	ND		950	110	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
2-Chloronaphthalene	ND		950	160	ug/Kg		05/05/17 07:53	05/07/17 01:02	
2-Chlorophenol	ND		950	170	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
2-Methylphenol	ND		950	110	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
2-Methylnaphthalene	ND		950	190	ug/Kg		05/05/17 07:53	05/07/17 01:02	
2-Nitroaniline	ND		1800	140	ug/Kg	₩	05/05/17 07:53	05/07/17 01:02	
2-Nitrophenol	ND		950	270	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
3.3'-Dichlorobenzidine	ND		1800	1100	ug/Kg		05/05/17 07:53	05/07/17 01:02	
3-Nitroaniline	ND		1800	260	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
4,6-Dinitro-2-methylphenol	ND		1800	950	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
4-Bromophenyl phenyl ether	ND		950	130	ug/Kg		05/05/17 07:53	05/07/17 01:02	
4-Chloro-3-methylphenol	ND		950	230	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
4-Chloroaniline	ND		950	230	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
4-Chlorophenyl phenyl ether	ND		950	120	ug/Kg		05/05/17 07:53	05/07/17 01:02	
4-Methylphenol	ND		1800	110	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
4-Nitroaniline	ND		1800	500	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
4-Nitrophenol	ND		1800	670	ug/Kg		05/05/17 07:53	05/07/17 01:02	
Acenaphthene	ND		950	140	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
Acenaphthylene	ND		950		ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
Acetophenone	ND		950		ug/Kg		05/05/17 07:53	05/07/17 01:02	
Anthracene	ND		950		ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
Atrazine	ND		950		ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
Benzaldehyde	ND		950		ug/Kg		05/05/17 07:53	05/07/17 01:02	
Benzo[a]anthracene	810	J.	950		ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
Benzo[a]pyrene	710		950	140	ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
Benzo[b]fluoranthene		J	950	150	ug/Kg		05/05/17 07:53	05/07/17 01:02	
Benzo[g,h,i]perylene		J	950		ug/Kg ug/Kg	₩	05/05/17 07:53	05/07/17 01:02	
Benzo[g,n,n]peryiene Benzo[k]fluoranthene	450		950		ug/Kg ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
Bis(2-chloroethoxy)methane	ND		950				05/05/17 07:53	05/07/17 01:02	
Bis(2-chloroethyl)ether	ND		950		ug/Kg ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
Bis(2-ethylhexyl) phthalate	ND		950		ug/Kg ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
Butyl benzyl phthalate	620		950		ug/Kg		05/05/17 07:53	05/07/17 01:02	
Caprolactam	ND	•	950		ug/Kg ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
Carbazole	110		950		ug/Kg ug/Kg	₽	05/05/17 07:53	05/07/17 01:02	
Carpazole	740		950		ug/Kg ug/Kg		05/05/17 07:53	05/07/17 01:02	

TestAmerica Buffalo

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1 E

Client: New York State D.E.C.

Nitrobenzene

**Phenanthrene** 

Phenol

**Pyrene** 

Pentachlorophenol

Project/Site: Highland Plaza - OffSite C915293A

Client Sample ID: SS-8 Lab Sample ID: 480-117313-8

Date Collected: 05/02/17 09:30 Matrix: Solid Date Received: 05/02/17 15:00

Percent Solids: 89.0 Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued) Result Qualifier MDL D Dil Fac Analyte Unit Prepared Analyzed ND 950 05/05/17 07:53 05/07/17 01:02 Dibenz(a,h)anthracene 170 ug/Kg Di-n-butyl phthalate 950 5 ND 05/05/17 07:53 05/07/17 01:02 160 ug/Kg ā Di-n-octyl phthalate ND 950 110 ug/Kg 05/05/17 07:53 05/07/17 01:02 5 # ND 950 05/05/17 07:53 05/07/17 01:02 5 Dibenzofuran 110 ug/Kg ₩ Diethyl phthalate ND 950 120 ug/Kg 05/05/17 07:53 05/07/17 01:02 5 φ ND 950 ug/Kg 05/05/17 07:53 05/07/17 01:02 5 110 ₩ 1500 950 100 ug/Kg 05/05/17 07:53 05/07/17 01:02 5 ġ 5 110 05/07/17 01:02

Dimethyl phthalate **Fluoranthene** ND 950 05/05/17 07:53 Fluorene ug/Kg φ Hexachlorobenzene ND 950 130 ug/Kg 05/05/17 07:53 05/07/17 01:02 Hexachlorobutadiene ND 950 140 ug/Kg 05/05/17 07:53 05/07/17 01:02 # Hexachlorocyclopentadiene ND 950 130 ug/Kg 05/05/17 07:53 05/07/17 01:02 à 05/05/17 07:53 Hexachloroethane ND 950 120 ug/Kg 05/07/17 01:02 Indeno[1,2,3-cd]pyrene 440 950 120 ug/Kg 05/05/17 07:53 05/07/17 01:02 ₿ Isophorone ND 950 200 ug/Kg 05/05/17 07:53 05/07/17 01:02 950 ND 05/05/17 07:53 05/07/17 01:02 N-Nitrosodi-n-propylamine 160 ug/Kg ä N-Nitrosodiphenylamine ND 950 770 05/05/17 07:53 05/07/17 01:02 ug/Kg 950 Naphthalene ND 120 ug/Kg 05/05/17 07:53 05/07/17 01:02

ND

ND

860

ND

1300

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed Nitrobenzene-d5 (Surr) 81 53 - 120 05/05/17 07:53 05/07/17 01:02 5 67 5 Phenol-d5 (Surr) 54 - 120 05/05/17 07:53 05/07/17 01:02 p-Terphenyl-d14 (Surr) 77 65 - 121 05/05/17 07:53 05/07/17 01:02 5 90 5 2,4,6-Tribromophenol (Surr) 54 - 120 05/05/17 07:53 05/07/17 01:02 2-Fluorobiphenyl 74 60 - 120 05/05/17 07:53 05/07/17 01:02 5 2-Fluorophenol (Surr) 61 52 - 120 05/05/17 07:53 05/07/17 01:02 5

950

1800

950

950

950

ug/Kg

ug/Kg

ug/Kg

ua/Ka

950

140

150

110 ug/Kg

Method: 8081B - Organochlorine Pesticides (GC) Prepared Dil Fac Result Qualifier RL MDL Unit D Analyte Analyzed ₩ 4,4'-DDD 1.9 05/03/17 07:59 05/04/17 20:52 1.7 0.36 ug/Kg 4,4'-DDE 05/03/17 07:59 05/04/17 20:52 4.8 1.9 0.39 ug/Kg ug/Kg 4,4'-DDT 6.8 1.9 0.43 ₽ 05/03/17 07:59 05/04/17 20:52 Aldrin ND 1.9 0.46 ug/Kg ₽ 05/03/17 07:59 05/04/17 20:52 ug/Kg ġ alpha-BHC ND 1.9 0.33 05/03/17 07:59 05/04/17 20:52 alpha-Chlordane ND 1.9 0.92 05/03/17 07:59 05/04/17 20:52 ug/Kg φ beta-BHC ND 1.9 0.33 ug/Kg 05/03/17 07:59 05/04/17 20:52 \$ delta-BHC ND 1.9 0.35 05/03/17 07:59 05/04/17 20:52 ug/Kg ₩ Dieldrin 0.78 1.9 0.45 ug/Kg 05/03/17 07:59 05/04/17 20:52 ġ Endosulfan ND 1.9 0.36 ug/Kg 05/03/17 07:59 05/04/17 20:52 Endosulfan II ND 05/03/17 07:59 05/04/17 20:52 1.9 0.33 ug/Kg ND ₿ 05/03/17 07:59 05/04/17 20:52 Endosulfan sulfate 1.9 0.35 ug/Kg Endrin ND 05/04/17 20:52 19 0.37 ug/Kg 05/03/17 07:59 ġ Endrin aldehyde ND 0.47 05/03/17 07:59 05/04/17 20:52 1.9 ug/Kg 0.46 Endrin ketone ND 1.9 05/03/17 07:59 05/04/17 20:52 ug/Kg ġ gamma-BHC (Lindane) ND 1.9 0.34 ug/Kg 05/03/17 07:59 05/04/17 20:52 gamma-Chlordane ND 19 0.59 ug/Kg 05/03/17 07:59 05/04/17 20:52

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TestAmerica Job ID: 480-117313-1

05/05/17 07:53

05/05/17 07:53

05/05/17 07:53

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Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

**Client Sample ID: SS-8** Lab Sample ID: 480-117313-8

Date Collected: 05/02/17 09:30 Matrix: Solid Date Received: 05/02/17 15:00 Percent Solids: 89.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.40	ug/Kg	₩	05/03/17 07:59	05/04/17 20:52	1
Heptachlor epoxide	ND		1.9	0.48	ug/Kg	\$	05/03/17 07:59	05/04/17 20:52	1
Methoxychlor	ND		1.9	0.38	ug/Kg	₽	05/03/17 07:59	05/04/17 20:52	1
Toxaphene	ND		19	11	ug/Kg	₽	05/03/17 07:59	05/04/17 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		45 - 120				05/03/17 07:59	05/04/17 20:52	1
DCB Decachlorobiphenyl	219	X	45 - 120				05/03/17 07:59	05/04/17 20:52	1
Tetrachloro-m-xylene	81		30 - 124				05/03/17 07:59	05/04/17 20:52	1
Tetrachloro-m-xylene	64		30 - 124				05/03/17 07:59	05/04/17 20:52	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	-	0.24	0.047	mg/Kg	<del>\</del>	05/03/17 13:40	05/04/17 03:54	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	05/03/17 13:40	05/04/17 03:54	1
PCB-1232	ND		0.24	0.047	mg/Kg	₩	05/03/17 13:40	05/04/17 03:54	1
PCB-1242	ND		0.24	0.047	mg/Kg	₽	05/03/17 13:40	05/04/17 03:54	1
PCB-1248	ND		0.24	0.047	mg/Kg	₩	05/03/17 13:40	05/04/17 03:54	1
PCB-1254	ND		0.24	0.11	mg/Kg	₩	05/03/17 13:40	05/04/17 03:54	1
PCB-1260	ND		0.24	0.11	mg/Kg	₩	05/03/17 13:40	05/04/17 03:54	1
PCB-1262	ND		0.24	0.11	mg/Kg	₩	05/03/17 13:40	05/04/17 03:54	1
PCB-1268	ND		0.24	0.11	mg/Kg	₽	05/03/17 13:40	05/04/17 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
Tetrachloro-m-xylene	117	<del></del> -	60 - 154	 05/03/17 13:40	05/04/17 03:54	1	
Tetrachloro-m-xylene	108		60 - 154	05/03/17 13:40	05/04/17 03:54	1	
DCB Decachlorobiphenyl	123		65 - 174	05/03/17 13:40	05/04/17 03:54	1	
DCB Decachlorobiphenyl	110		65 - 174	05/03/17 13:40	05/04/17 03:54	1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.16	JB	0.23	0.074	ug/Kg	\$	05/08/17 11:20	05/15/17 23:45	1
Perfluoropentanoic acid (PFPeA)	ND		0.23	0.15	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluorohexanoic acid (PFHxA)	ND		0.23	0.081	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluoroheptanoic acid (PFHpA)	ND		0.23	0.10	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluorooctanoic acid (PFOA)	ND		0.23	0.12	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluorononanoic acid (PFNA)	ND		0.23	0.094	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluorodecanoic acid (PFDA)	0.079	J	0.23	0.065	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.12	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluorododecanoic acid (PFDoA)	ND		0.23	0.14	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluorotridecanoic Acid (PFTriA)	ND		0.23	0.10	ug/Kg	\$	05/08/17 11:20	05/15/17 23:45	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.066	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.12	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluorohexanesulfonic acid (PFHxS)	0.13	J	0.23	0.13	ug/Kg	<b>\$</b>	05/08/17 11:20	05/15/17 23:45	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.23	0.13	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluorooctanesulfonic acid (PFOS)	1.7		0.23	0.14	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.082	ug/Kg	\$	05/08/17 11:20	05/15/17 23:45	1
Perfluorooctane Sulfonamide (FOSA)	ND		0.23	0.091	ug/Kg	₽	05/08/17 11:20	05/15/17 23:45	1

TestAmerica Buffalo

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TestAmerica Job ID: 480-117313-1

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

TestAmerica Job ID: 480-117313-1

Matrix: Solid

Percent Solids: 89.0

**Client Sample ID: SS-8** Lab Sample ID: 480-117313-8 Date Collected: 05/02/17 09:30 Date Received: 05/02/17 15:00

Isotope Dilution	%Recovery (	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	12	*	25 - 150	05/08/17 11:20	05/15/17 23:45	1
13C4 PFBA	78		25 - 150	05/08/17 11:20	05/15/17 23:45	1
13C2 PFHxA	75		25 - 150	05/08/17 11:20	05/15/17 23:45	1
13C4 PFOA	83		25 - 150	05/08/17 11:20	05/15/17 23:45	1
13C5 PFNA	79		25 - 150	05/08/17 11:20	05/15/17 23:45	1
13C2 PFDA	81		25 - 150	05/08/17 11:20	05/15/17 23:45	1
13C2 PFUnA	77		25 - 150	05/08/17 11:20	05/15/17 23:45	1
13C2 PFDoA	51		25 - 150	05/08/17 11:20	05/15/17 23:45	1
1802 PFHxS	64		25 - 150	05/08/17 11:20	05/15/17 23:45	1
13C4 PFOS	59		25 - 150	05/08/17 11:20	05/15/17 23:45	1
13C4-PFHpA	83		25 - 150	05/08/17 11:20	05/15/17 23:45	1
13C5 PFPeA	80		25 - 150	05/08/17 11:20	05/15/17 23:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12200		10.8	4.8	mg/Kg	<del>\</del>	05/09/17 10:01	05/12/17 21:46	1
Antimony	ND		16.2	0.43	mg/Kg	₽	05/09/17 10:01	05/12/17 21:46	1
Arsenic	4.4		2.2	0.43	mg/Kg	≎	05/09/17 10:01	05/12/17 21:46	1
Barium	82.4		0.54	0.12	mg/Kg	₽	05/09/17 10:01	05/12/17 21:46	1
Beryllium	0.54		0.22	0.030	mg/Kg	≎	05/09/17 10:01	05/12/17 21:46	1
Cadmium	0.40		0.22	0.032	mg/Kg	₽	05/09/17 10:01	05/12/17 21:46	1
Calcium	81400	В	54.2	3.6	mg/Kg	φ.	05/09/17 10:01	05/12/17 21:46	1
Chromium	16.0		0.54	0.22	mg/Kg	₽	05/09/17 10:01	05/12/17 21:46	1
Cobalt	7.4		0.54	0.054	mg/Kg	₽	05/09/17 10:01	05/12/17 21:46	1
Copper	19.0		1.1	0.23	mg/Kg		05/09/17 10:01	05/12/17 21:46	1
Iron	13400		10.8	3.8	mg/Kg	₽	05/09/17 10:01	05/12/17 21:46	1
Lead	25.0		1.1	0.26	mg/Kg	≎	05/09/17 10:01	05/12/17 21:46	1
Magnesium	15400		21.7	1.0	mg/Kg	₽	05/09/17 10:01	05/12/17 21:46	1
Manganese	673	В	0.22	0.035	mg/Kg	≎	05/09/17 10:01	05/12/17 21:46	1
Nickel	17.6		5.4	0.25	mg/Kg	☼	05/09/17 10:01	05/12/17 21:46	1
Potassium	3310		32.5	21.7	mg/Kg	₽	05/09/17 10:01	05/12/17 21:46	1
Selenium	ND		4.3	0.43	mg/Kg	≎	05/09/17 10:01	05/12/17 21:46	1
Silver	ND		0.65	0.22	mg/Kg	₽	05/09/17 10:01	05/12/17 21:46	1
Sodium	163		152	14.1	mg/Kg	₽	05/09/17 10:01	05/12/17 21:46	1
Thallium	ND		6.5	0.32	mg/Kg	≎	05/09/17 10:01	05/12/17 21:46	1
Vanadium	25.9		0.54	0.12	mg/Kg	₽	05/09/17 10:01	05/12/17 21:46	1
Zinc	77.1		2.2	0.69	mg/Kg		05/09/17 10:01	05/12/17 21:46	1

Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		0.021	0.0084	mg/Kg	<del>\</del>	05/03/17 12:45	05/03/17 14:42	1

TestAmerica Buffalo

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

**Client Sample ID: SS-9** Lab Sample ID: 480-117313-9

Date Collected: 05/02/17 11:50 Matrix: Solid Date Received: 05/02/17 15:00 Percent Solids: 84.8

Method: 8260C - Volatile Organic	Compounds h	v GC/MS							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.39	ug/Kg	<del>*</del>	05/04/17 13:49	05/12/17 13:37	
1,1,2,2-Tetrachloroethane	ND		1.0	0.18	ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.45	ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
,1,2-Trichloroethane	ND		1.0	0.29	ug/Kg	\$	05/04/17 13:49	05/12/17 13:37	
,1-Dichloroethane	ND		1.0	0.35	ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
,1-Dichloroethene	ND		1.0	0.42	ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/Kg		05/04/17 13:49	05/12/17 13:37	
,2-Dibromo-3-Chloropropane	ND		1.0	0.48	ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
1,2-Dibromoethane	ND		1.0	0.12	ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg		05/04/17 13:49	05/12/17 13:37	
1,2-Dichloroethane	ND		1.0	0.11	ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
1,2-Dichloropropane	ND		1.0	0.18	ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
1,3-Dichlorobenzene	ND		1.0	0.12	ug/Kg		05/04/17 13:49	05/12/17 13:37	
1,4-Dichlorobenzene	ND		1.0		ug/Kg	₽	05/04/17 13:49	05/12/17 13:37	
1,4-Dioxane	ND		21		ug/Kg	₽	05/04/17 13:49	05/12/17 13:37	
2-Butanone (MEK)	ND		5.2		ug/Kg		05/04/17 13:49	05/12/17 13:37	
2-Hexanone	ND		5.2		ug/Kg	₽	05/04/17 13:49	05/12/17 13:37	
I-Methyl-2-pentanone (MIBK)	ND		5.2		ug/Kg	₽	05/04/17 13:49	05/12/17 13:37	
Acetone	ND		5.2		ug/Kg		05/04/17 13:49	05/12/17 13:37	
Benzene	ND		1.0		ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
Bromodichloromethane	ND		1.0		ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
Bromoform	ND		1.0		ug/Kg		05/04/17 13:49	05/12/17 13:37	
Bromomethane	ND		1.0		ug/Kg	₽	05/04/17 13:49	05/12/17 13:37	
Carbon disulfide	ND		1.0		ug/Kg	₽	05/04/17 13:49	05/12/17 13:37	
Carbon tetrachloride	ND		1.0		ug/Kg		05/04/17 13:49	05/12/17 13:37	
Chlorobenzene	ND		1.0		ug/Kg	₽	05/04/17 13:49	05/12/17 13:37	
Chloroethane	ND ND		1.0			₽	05/04/17 13:49	05/12/17 13:37	
					ug/Kg				
Chloroform	ND		1.0		ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
Chloromethane	ND		1.0		ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
sis-1,2-Dichloroethene	ND		1.0		ug/Kg	<del></del>	05/04/17 13:49	05/12/17 13:37	
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		05/04/17 13:49	05/12/17 13:37	
Cyclohexane	ND		1.0		ug/Kg	*	05/04/17 13:49	05/12/17 13:37	
Dibromochloromethane	ND		1.0		ug/Kg	<del>, ,</del>	05/04/17 13:49	05/12/17 13:37	
Dichlorodifluoromethane	ND		1.0		ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
Ethylbenzene	ND		1.0		ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
sopropylbenzene	ND		1.0		ug/Kg	<u>.</u>	05/04/17 13:49	05/12/17 13:37	
Methyl acetate	ND		5.2		ug/Kg	<b>‡</b>	05/04/17 13:49	05/12/17 13:37	
Methyl tert-butyl ether	ND		1.0		ug/Kg	<b>‡</b>	05/04/17 13:49	05/12/17 13:37	
Methylcyclohexane	ND		1.0		ug/Kg		05/04/17 13:49	05/12/17 13:37	
Methylene Chloride	1.8		1.0		ug/Kg	**	05/04/17 13:49	05/12/17 13:37	
Styrene	ND		1.0		ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
Tetrachloroethene	0.63	J	1.0	0.29	ug/Kg		05/04/17 13:49	05/12/17 13:37	
<b>Toluene</b>	4.8		1.0		ug/Kg	₩	05/04/17 13:49	05/12/17 13:37	
rans-1,2-Dichloroethene	ND		1.0	0.40	ug/Kg	₽	05/04/17 13:49	05/12/17 13:37	
rans-1,3-Dichloropropene	ND		1.0	0.10	ug/Kg	₽	05/04/17 13:49	05/12/17 13:37	
Frichloroethene	ND		1.0	0.27	ug/Kg	₽	05/04/17 13:49	05/12/17 13:37	
Trichlorofluoromethane	ND		1.0	0.35	ug/Kg	≎	05/04/17 13:49	05/12/17 13:37	
Vinyl chloride	ND		1.0	0.40	ug/Kg	₽	05/04/17 13:49	05/12/17 13:37	
Xylenes, Total	0.84	J	2.1	0.11	ug/Kg		05/04/17 13:49	05/12/17 13:37	

TestAmerica Buffalo

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TestAmerica Job ID: 480-117313-1

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Client Sample ID: SS-9 Lab Sample ID: 480-117313-9

Date Collected: 05/02/17 11:50 Date Received: 05/02/17 15:00 Matrix: Solid

TestAmerica Job ID: 480-117313-1

Percent Solids: 84.8

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	78 - 135	05/04/17 13:49	05/12/17 13:37	1
4-Bromofluorobenzene	98	67 - 126	05/04/17 13:49	05/12/17 13:37	1
Dibromofluoromethane (Surr)	109	61 - 149	05/04/17 13:49	05/12/17 13:37	1
Toluene-d8 (Surr)	91	73 - 121	05/04/17 13:49	05/12/17 13:37	1

Analyte	rganic Compou Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Biphenyl	ND		980	140	ug/Kg	<del></del>	05/05/17 07:53	05/07/17 01:29	
ois (2-chloroisopropyl) ether	ND		980	200	ug/Kg	₩	05/05/17 07:53	05/07/17 01:29	
2,4,5-Trichlorophenol	ND		980	260	ug/Kg	☼	05/05/17 07:53	05/07/17 01:29	
2,4,6-Trichlorophenol	ND		980	200	ug/Kg		05/05/17 07:53	05/07/17 01:29	
2,4-Dichlorophenol	ND		980	100	ug/Kg	☼	05/05/17 07:53	05/07/17 01:29	
2,4-Dimethylphenol	ND		980	240	ug/Kg	☼	05/05/17 07:53	05/07/17 01:29	
2,4-Dinitrophenol	ND		9500	4500	ug/Kg		05/05/17 07:53	05/07/17 01:29	
2,4-Dinitrotoluene	ND		980	200	ug/Kg	☼	05/05/17 07:53	05/07/17 01:29	
2,6-Dinitrotoluene	ND		980	110	ug/Kg	₽	05/05/17 07:53	05/07/17 01:29	
2-Chloronaphthalene	ND		980	160	ug/Kg	₽	05/05/17 07:53	05/07/17 01:29	
2-Chlorophenol	ND		980	180	ug/Kg	₽	05/05/17 07:53	05/07/17 01:29	
2-Methylphenol	ND		980	110	ug/Kg	₩	05/05/17 07:53	05/07/17 01:29	
2-Methylnaphthalene	ND		980	200	ug/Kg	₩.	05/05/17 07:53	05/07/17 01:29	
2-Nitroaniline	ND		1900	140	ug/Kg	₽	05/05/17 07:53	05/07/17 01:29	
2-Nitrophenol	ND		980	280	ug/Kg	₩	05/05/17 07:53	05/07/17 01:29	
3,3'-Dichlorobenzidine	ND		1900	1100	ug/Kg		05/05/17 07:53	05/07/17 01:29	
3-Nitroaniline	ND		1900	270	ug/Kg	₽	05/05/17 07:53	05/07/17 01:29	
1,6-Dinitro-2-methylphenol	ND		1900	980	ug/Kg	₽	05/05/17 07:53	05/07/17 01:29	
1-Bromophenyl phenyl ether	ND		980	140	ug/Kg		05/05/17 07:53	05/07/17 01:29	
1-Chloro-3-methylphenol	ND		980	240	ug/Kg	₽	05/05/17 07:53	05/07/17 01:29	
1-Chloroaniline	ND		980	240	ug/Kg	☼	05/05/17 07:53	05/07/17 01:29	
1-Chlorophenyl phenyl ether	ND		980	120	ug/Kg		05/05/17 07:53	05/07/17 01:29	
1-Methylphenol	ND		1900	110	ug/Kg	₩	05/05/17 07:53	05/07/17 01:29	
1-Nitroaniline	ND		1900	510	ug/Kg	₽	05/05/17 07:53	05/07/17 01:29	
1-Nitrophenol	ND		1900	680	ug/Kg		05/05/17 07:53	05/07/17 01:29	
Acenaphthene	ND		980	140	ug/Kg	☼	05/05/17 07:53	05/07/17 01:29	
Acenaphthylene	ND		980	130	ug/Kg	₽	05/05/17 07:53	05/07/17 01:29	
Acetophenone	ND		980	130	ug/Kg		05/05/17 07:53	05/07/17 01:29	
Anthracene	ND		980	240	ug/Kg	₽	05/05/17 07:53	05/07/17 01:29	
Atrazine	ND		980	340	ug/Kg	☼	05/05/17 07:53	05/07/17 01:29	
Benzaldehyde	ND		980	780	ug/Kg		05/05/17 07:53	05/07/17 01:29	
Benzo[a]anthracene	140	J	980	98	ug/Kg	☼	05/05/17 07:53	05/07/17 01:29	
Benzo[a]pyrene	ND		980	140	ug/Kg	☼	05/05/17 07:53	05/07/17 01:29	
Benzo[b]fluoranthene	ND		980	160	ug/Kg	₩.	05/05/17 07:53	05/07/17 01:29	
Benzo[g,h,i]perylene	ND		980	100	ug/Kg	₩	05/05/17 07:53	05/07/17 01:29	
Benzo[k]fluoranthene	ND		980	130	ug/Kg	₩	05/05/17 07:53	05/07/17 01:29	
Bis(2-chloroethoxy)methane	ND		980		ug/Kg		05/05/17 07:53	05/07/17 01:29	
Bis(2-chloroethyl)ether	ND		980	130	ug/Kg	₩	05/05/17 07:53	05/07/17 01:29	
Bis(2-ethylhexyl) phthalate	ND		980	330	ug/Kg	₽	05/05/17 07:53	05/07/17 01:29	
Butyl benzyl phthalate	ND		980		ug/Kg	ф.	05/05/17 07:53	05/07/17 01:29	
Caprolactam	ND		980		ug/Kg	₩	05/05/17 07:53	05/07/17 01:29	
Carbazole	ND		980	110	ug/Kg	₩	05/05/17 07:53	05/07/17 01:29	
Chrysene	ND		980		ug/Kg		05/05/17 07:53	05/07/17 01:29	

TestAmerica Buffalo

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Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

Client Sample ID: SS-9 Lab Sample ID: 480-117313-9

Date Collected: 05/02/17 11:50 Matrix: Solid Date Received: 05/02/17 15:00 Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued) Dil Fac Analyte Result Qualifier MDL Unit D Prepared Analyzed  $\overline{\varphi}$ Dibenz(a,h)anthracene ND 980 170 ug/Kg 05/05/17 07:53 05/07/17 01:29 ND 980 05/05/17 07:53 5 Di-n-butyl phthalate ug/Kg 05/07/17 01:29 170 ₽ 5 Di-n-octyl phthalate ND 980 110 ug/Kg 05/05/17 07:53 05/07/17 01:29 Dibenzofuran ND 980 05/05/17 07:53 05/07/17 01:29 5 110 ug/Kg ₩ 5 Diethyl phthalate ND 980 130 ug/Kg 05/05/17 07:53 05/07/17 01:29 Dimethyl phthalate ND 980 05/05/17 07:53 05/07/17 01:29 5 110 ug/Kg ₽ **Fluoranthene** 190 980 100 ug/Kg 05/05/17 07:53 05/07/17 01:29 5 Fluorene ND 980 05/05/17 07:53 5 110 ug/Kg 05/07/17 01:29 ND 980 05/05/17 07:53 5 Hexachlorobenzene 130 ug/Kg 05/07/17 01:29 ND 980 05/05/17 07:53 5 Hexachlorobutadiene 140 ug/Kg 05/07/17 01:29 ₩ ND 980 05/05/17 07:53 5 Hexachlorocyclopentadiene 130 ug/Kg 05/07/17 01:29 ₽ Hexachloroethane ND 980 05/05/17 07:53 05/07/17 01:29 5 130 ug/Kg 5 Indeno[1,2,3-cd]pyrene ND 980 120 ug/Kg 05/05/17 07:53 05/07/17 01:29 Isophorone ND 980 210 ug/Kg ₩ 05/05/17 07:53 05/07/17 01:29 5 ND 980 ug/Kg 5 N-Nitrosodi-n-propylamine 170 05/05/17 07:53 05/07/17 01:29 N-Nitrosodiphenylamine ND 980 05/05/17 07:53 05/07/17 01:29 5 ug/Kg ND 980 05/05/17 07:53 5 Naphthalene 130 ug/Kg 05/07/17 01:29 ₩ Nitrobenzene ND 980 ug/Kg 05/05/17 07:53 05/07/17 01:29 5 110 Pentachlorophenol ND 1900 980 05/05/17 07:53 05/07/17 01:29 5 ug/Kg Phenanthrene ₽ 5 ND 980 140 ug/Kg 05/05/17 07:53 05/07/17 01:29 ₽ Phenol ND 980 150 ug/Kg 05/05/17 07:53 05/07/17 01:29 5 980 05/05/17 07:53 05/07/17 01:29 **Pyrene** 180 J 110 ug/Kg

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		53 - 120	05/05/17 07:53	05/07/17 01:29	5
Phenol-d5 (Surr)	62		54 - 120	05/05/17 07:53	05/07/17 01:29	5
p-Terphenyl-d14 (Surr)	76		65 - 121	05/05/17 07:53	05/07/17 01:29	5
2,4,6-Tribromophenol (Surr)	86		54 - 120	05/05/17 07:53	05/07/17 01:29	5
2-Fluorobiphenyl	68		60 - 120	05/05/17 07:53	05/07/17 01:29	5
2-Fluorophenol (Surr)	60		52 - 120	05/05/17 07:53	05/07/17 01:29	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	2.0		1.9	0.37	ug/Kg	<u> </u>	05/03/17 07:59	05/04/17 21:11	1
4,4'-DDE	2.4		1.9	0.40	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
4,4'-DDT	12		1.9	0.45	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
Aldrin	ND		1.9	0.47	ug/Kg	\$	05/03/17 07:59	05/04/17 21:11	1
alpha-BHC	ND		1.9	0.34	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
alpha-Chlordane	ND		1.9	0.95	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
beta-BHC	ND		1.9	0.34	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
delta-BHC	ND		1.9	0.36	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
Dieldrin	ND		1.9	0.46	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
Endosulfan I	ND		1.9	0.37	ug/Kg	\$	05/03/17 07:59	05/04/17 21:11	1
Endosulfan II	ND		1.9	0.34	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
Endrin	ND		1.9	0.38	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
Endrin ketone	ND		1.9	0.47	ug/Kg	₩	05/03/17 07:59	05/04/17 21:11	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
gamma-Chlordane	ND		1.9	0.61	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1

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TestAmerica Job ID: 480-117313-1

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Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

**Client Sample ID: SS-9** 

Lab Sample ID: 480-117313-9

TestAmerica Job ID: 480-117313-1

Date Collected: 05/02/17 11:50	Matrix: Solid
Date Received: 05/02/17 15:00	Percent Solids: 84.8
Method: 8081B - Organochlorine Pesticides (GC) (Continued)	

Method: 8081B - Organochio	orine Pesticides (G	C) (Continu	ied)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.41	ug/Kg	₩	05/03/17 07:59	05/04/17 21:11	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	\$	05/03/17 07:59	05/04/17 21:11	1
Methoxychlor	ND		1.9	0.39	ug/Kg	₽	05/03/17 07:59	05/04/17 21:11	1
Toxaphene	ND		19	11	ug/Kg	₩	05/03/17 07:59	05/04/17 21:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	112		45 - 120				05/03/17 07:59	05/04/17 21:11	1
DCB Decachlorobiphenyl	119		45 - 120				05/03/17 07:59	05/04/17 21:11	1
Tetrachloro-m-xylene	82		30 - 124				05/03/17 07:59	05/04/17 21:11	1
Tetrachloro-m-xylene	70		30 - 124				05/03/17 07:59	05/04/17 21:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	<u></u>	05/03/17 13:40	05/04/17 04:10	1
PCB-1221	ND		0.24	0.047	mg/Kg	₽	05/03/17 13:40	05/04/17 04:10	1
PCB-1232	ND		0.24	0.047	mg/Kg	₽	05/03/17 13:40	05/04/17 04:10	1
PCB-1242	ND		0.24	0.047	mg/Kg	\$	05/03/17 13:40	05/04/17 04:10	1
PCB-1248	ND		0.24	0.047	mg/Kg	₽	05/03/17 13:40	05/04/17 04:10	1
PCB-1254	ND		0.24	0.11	mg/Kg	₩	05/03/17 13:40	05/04/17 04:10	1
PCB-1260	ND		0.24	0.11	mg/Kg	₽	05/03/17 13:40	05/04/17 04:10	1
PCB-1262	ND		0.24	0.11	mg/Kg	₽	05/03/17 13:40	05/04/17 04:10	1
PCB-1268	ND		0.24	0.11	mg/Kg	₩	05/03/17 13:40	05/04/17 04:10	1
	0/ 🗖	0 ""						A I I	D# 5

Surrogate	%Recovery	Qualifier Lim	nits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117	60 -	.154	05/03/17 13:40	05/04/17 04:10	1
Tetrachloro-m-xylene	103	60 -	154	05/03/17 13:40	05/04/17 04:10	1
DCB Decachlorobiphenyl	124	65 -	.174	05/03/17 13:40	05/04/17 04:10	1
DCB Decachlorobiphenyl	111	65 -	.174	05/03/17 13:40	05/04/17 04:10	1

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19900		12.6	5.6	mg/Kg	<del>-</del>	05/09/17 10:01	05/12/17 21:49	1
Antimony	ND		18.9	0.50	mg/Kg	☼	05/09/17 10:01	05/12/17 21:49	1
Arsenic	4.6		2.5	0.50	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Barium	106		0.63	0.14	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Beryllium	0.78		0.25	0.035	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Cadmium	0.34		0.25	0.038	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Calcium	17000	В	63.1	4.2	mg/Kg	<b>\$</b>	05/09/17 10:01	05/12/17 21:49	1
Chromium	23.9		0.63	0.25	mg/Kg	₩	05/09/17 10:01	05/12/17 21:49	1
Cobalt	10.3		0.63	0.063	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Copper	16.4		1.3	0.27	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Iron	19900		12.6	4.4	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Lead	21.8		1.3	0.30	mg/Kg	₩	05/09/17 10:01	05/12/17 21:49	1
Magnesium	8770		25.2	1.2	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Manganese	503	В	0.25	0.040	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Nickel	22.2		6.3	0.29	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Potassium	4350		37.9	25.2	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Selenium	0.90	J	5.0	0.50	mg/Kg	₩	05/09/17 10:01	05/12/17 21:49	1
Silver	ND		0.76	0.25	mg/Kg	₽	05/09/17 10:01	10:01 05/12/17 21:49	
Sodium	163	J	177	16.4	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1

TestAmerica Buffalo

Client: New York State D.E.C.

Project/Site: Highland Plaza - OffSite C915293A

TestAmerica Job ID: 480-117313-1

Client Sample ID: SS-9 Lab Sample ID: 480-117313-9

Date Collected: 05/02/17 11:50

Matrix: Solid

Parcent Solids: 84.8

Date Received: 05/02/17 15:00 Percent Solids: 84.8

Method: 6010C - Metals (ICP) (Cont	inued)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		7.6	0.38	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Vanadium	39.4		0.63	0.14	mg/Kg	₽	05/09/17 10:01	05/12/17 21:49	1
Zinc	90.5		2.5	0.81	mg/Kg	\$	05/09/17 10:01	05/12/17 21:49	1
Method: 7471B - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.024	0.0098	mg/Kg	₽	05/03/17 12:45	05/03/17 14:46	1

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#### TestAmerica Buffalo

**Chain of Custody Record** 

10 Hazelwood Drive
Amherst, NY 14228-2223

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phone 716.691.2600 fax 716.691.7991	Regu	latory Pro	gram:	□ DW	NPDES		RCRA		Oth	ner:													
Client Contact	Glenn May	,	2 - V			Site	Co	ntac	t: Er	ic P	opke	n (GE	S)		Date: < /2// >								COC No:
NYSDEC-Region 9	Tel/Fax: 7	16-851-7220				Lab	Col	ntac	t: O	rlette	Joh	nson			Can	ier:				-			of COCs
270 Michigan Avenue		Analysis	s Turnarou	nd Time							8						T	T				T	Sampler: Nicole Linda
Buffalo, New York	[	CALENDAR	DAYS	✓ WORKIN	G DAYS				327	4	0	ł	ř							1	1		For Lab Use Only:
Phone 716-851-7220		Custom TA	T: 10	days .			ź	260	po B	808	let-	=	1										W= '
FAX			2 wee	ks		Î	2	g 9	eth	po	S, Z	€											La NAVIII
Project Name: Highland Plaza - Off-site	1		1 wee	k		(YIN		ţ,	Z .	eth	흥	89	1.										
Site No.: C915293A	1		2 days	5		le (	NS.	₩ I	NA.	S	Š	via 8260 SIM	537						1	1	l	1	J <sub>0</sub>
Contract #:	1		1 day			Sample	S	via	SB	ide	6	s >	DO.			- 1							L
,	Sample	Sample	Sample Type (C=Comp.			pe	Perform MS / MSD (Y /	TCL VOCs via Method 8260	L SVOCs BNAs Method 8270	L Pesticides Method 8081A	L PCBs, 9 Aroclors, Method	1,4-Dioxane	PFCs Method 537										480-117313 COC
Sample Identification	Date	Time	G=Grab)	Matrix	# of Cont.	Filter	Pel	일	걸	길	힏	₹ 4	H				$\perp$						Sample Specific Notes:
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SS-2	52117		G	Soil	5	N		x	x	х	x	хх	x										
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Possible Hazard Identification:							San	ple	Dis	posa	al (A	fee m	ay b	e as	sess	ed if	sam	ples	s are	reta	ined	long	ger than 1 month)
Are any samples from a listed EPA Hazardous Waste?	Please Lis	st any EPA \	Naste Code	s for the sa	ample in the	18																	
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Special Instructions/QC Requirements & Comment	s:	***	- tana								-									-	378		
Email report to epopken@gesonline.com, buffalola	bs@geson	line.com																					
ASP Cat B Deliverable Needed, NYSDEC EQuIS ED	D needed																						
Custody Seals Intact:	Custody Se	eal No.:	-							Coo	er Te	mp. (	°C): (	Obs'	d:			corr'c	d:			The	erm ID No.:
Relinghished by:	Company	-=-		Date/Time			Reç	eive	d by	7	- A \					C	omp	any:	B	7	)		Date/Time:
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Form No. CA-C-WI-002, Rev. 4.3, dated 12/0

#### TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228-2298 **Chain of Custody Record** 



**TestAmerica** 

THE LEADER IN ENVIRONMENTAL TESTING

Phone (716) 691-2600 Fax (716) 691-7991	-2500 Fax (716) 691-7991   Sampler:					-						ner Tracki	ng No(s):		10	COC No:		
Client Information (Sub Contract Lab)					ison, Orlette S										_	480-34744.1		
Clent Contact: Shipping/Receiving	Phone:			E-Ma								e of Origin w York	i.			Page: Page 1 of 1		
Company:					_	editations Required (See nate):								_	Job#:			
TestAmerica Laboratories, Inc.							New Y									480-117313-1		
Address: 880 Riverside Parkway, ,	Due Date Requested 5/12/2017	d:			Analysis Requested											Preservation Cod		
City:	TAT Requested (day	ys):			100	9		П	T	T	Ť	II		TI	0	A - HCL B - NaOH	M - Hexane N - None	
West Sacramento					3 1	8										C - Zn Acetate	O - AsNaO2	
State, Zip:: CA, 95605							otandard List									D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3	
Phone:	PO#:				18		Joan Joan	1	- 1	1	- 1	1 1		1 6	蘦	F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4	
916-373-5600(Tel) 916-372-1059(Fax)					Q		DIG.									H - Ascorbic Acid	T - TSP Dodecahydrai	
mail:	WO#				10 10										2	I - Ice J - DI Water	U - Acetone V - MCAA	
Project Name:	Project #:					20 2	Battl_14U FFAS,		1			1 1			aine	K-EDTA L-EDA	W - pH 4-5 Z - other (specify)	
dighland Plaza - OffSite C915293A	48015714 SSOW#				륍	2	E'								in o	Other:		
ne:	33000				San	32	, n					1 1			5	Outer.		
		Sample	Sample Type (C=comp,	Matrix (w=water, 8=solid, 0=waste/oil,		Perform MS/M	PFC_IDA/Shak								Total Number			
Sample Identification - Client ID (Lab ID)	Sample Date	Time		BT=Tissue, A:Air				1000		EC.	NAME OF	+			E)	Special In	structions/Note:	
		08:35	Preserva	tion Code:	W	Χ.	601 0551	03.00		1	100	Report L		1	$\Delta$	No. of the least o		
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SS-5 (480-117313-5)	5/2/17	09:00 Eastern		Solid	П		x								1			
SS-8 (480-117313-8)	5/2/17	09:30 Eastern		Solid			х								1			
SS-10 (480-117313-10)	5/2/17	09:25 Eastern		Solid	Ш		X								1			
SS-13 (480-117313-13)	5/2/17	09:45 Eastern		Solid	Ш		×								1			
SS-DUP1 (480-117313-16)	5/2/17	09:10 Eastern		Solid	Ц		X								1			
					$\coprod$		1											
					H	+	+			$\perp$		+	-	-				
Note: Since laboratory accreditations are subject to change, TestAmerica currently maintain accreditation in the State of Origin listed above for ana Laboratories, Inc. attention immediately. If all requested accreditations a	lysis/tests/matrix being analyze	d, the samples	must be shipp	ed back to the	TestAm	nerica	laborato	ry or atl	er instru	ctions wil								
Possible Hazard Identification					5	Sam	ple Dis	posa	(A fee	may	be ass	essed it	samples	s are reta	aine	ed longer than 1	month)	
Unconfirmed						-	Retur	n To o	Client	L	Disj	osal By	Lab		Arch	nive For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	2		5	Spec	ial Inst	ruction	is/QC I	Require	ments						· wear - · · ·	
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Custody Seals Intact: Custody Seal No.:						C	cooler Te	mperat	ıre(s) °C	and Oth	er Rema	ks:		-				
Δ Yes Δ No								157										











#### TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228-2298

# **Chain of Custody Record**



THE LEADER IN ENVIRONMENTAL TESTING

Phone (716) 691-2600 Fax (716) 691-7991																			THE LEADER IN ENV	INCOMMENTAL IES	SIING
Client Information (Sub Contract Lab)	Sampler:			Lab Pi John:	nson, Orlette S							Carri	er Trac	king N	Vo(s):				COC No: 480-34743.1		
Client Contact: Shipping/Receiving	Phone:			E-Mail orlett	tte.johnson@testamericainc.com							State of Origin: New York							Page: Page 1 of 2		
Company: TestAmerica Laboratories, Inc.					Accreditations Required (See note): NELAP - New York														Јов #: 480-117313-1		
Address: 777 New Durham Road, ,	Due Date Requested: 5/12/2017					Analysis Red												- 4	Preservation Code:	s: M - Hexane	
City: Edison	TAT Requested (da	ys):							П		Т						) ji	il in	B - NaOH	N - None O - AsNaO2	
State, Zip: NJ, 08817							1,4-	i										Park L	D - Nitric Acid I E - NaHSO4	P - Na2O4S Q - Na2SO3	
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO#:				(0	OLM04.2	M04.2 +		1	1							1. 1. 1.	Bert	G - Amchior	R - Na2S2O3 S - H2SO4 T - TSP Dodecahy	ydrate
Email:	WO #:				s or No)	Liist O	list OL											2	J - DI Water	U - Acetone V - MCAA W - pH 4-5	
Project Name: Highland Plaza - OffSite C915293A	Project #: 48015714				ed Sample (Yes of I Effitsleafynssonste)	D) 1C	) TCL		1				1	1			7		L-EDA	Z - other (specify)	1
Site:	SSOW#:	×			Samp	W (MC	(MOE											ဦ	Other:		
Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample (w Type s (C=comp, BT		Flatd Filterad Restormitts/fil	8260C/5035A_FW (MOD) TCL list OLM04. Dioxane	260C/6035A_N loxane										<u>}</u>	Total Number of	Special Inc	tructions/Net-	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	Preservation			8 0	8 0		1 30	eg . 1/8	With Sec.	17,97	11 11 11	18.	E 118 1	و المارات الم			Special insi	tructions/Note	. 1 (1 / 1)
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SS-4 (480-117313-4)	5/2/17	10:45 Eastern	\$	olid		Х	Х										1	7			
SS-5 (480-117313-5)	5/2/17	09:00 Eastern		Solid		х	Х										1.	1			
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SS-7 (480-117313-7MS)	5/2/17	11:10 Eastern	MS S	olid		Х	Х										7	1			
SS-7 (480-117313-7MSD)	5/2/17	11:10 Eastern	MSD	Solid		х	Х										3	.1			
Note: Since laboratory accreditations are subject to change, TestAmerica Laborat currently maintain accreditation in the State of Origin listed above for analysis/test Laboratories, Inc. attention immediately. If all requested accreditations are curren	s/matrix being analyze	ed, the sample	s must be shipped b	ack to the	TestAm	erica la	aborate	ory or o	ther in	nstructio	ns will	This sa	ample s vided.	hipme Any c	ent is fo hanges	orward s to ac	led und ccredita	der c	chain-of-custody. If the status should be brou	laboratory does n ght to TestAmerica	not a
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Page 162 of 166

#### TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228-2298

# **Chain of Custody Record**



THE LEADER IN ENVIRONMENTAL TESTING

Phone (716) 691-2600 Fax (716) 691-7991																					THE LEADER IN EN	VIRONMENTAL TESTING	
Client Information (Sub Contract Lab) Client Contact	Sampler.			Lab Joh		son, Orlette S								Carrier Tracking No(s):							COC No: 480-34743.2		
Shipping/Receiving	Phone:			E-Ma orle	tte.jc	ohnson@testamericainc.com New Yo								ate of Origin: ew York						Page: Page 2 of 2			
Company: TestAmerica Laboratories, Inc.						reditations Required (See note): LAP - New York											Job#: 480-117313-1						
Address: 777 New Durham Road, ,	Due Date Request 5/12/2017	Due Date Requested: 5/12/2017						Analysis Requested											T	Preservation Code A - HCL	es: M - Hexane		
City: Edison	TAT Requested (d	FAT Requested (days):													Т			22.			B - NaOH C - Zn Acetate	N - None O - AsNaO2	
State, Zip: NJ, 08817						2+14		4,1+											1	1	D - Nitric Acid E - NaHSO4 F - MeOH	P - Na2O4S Q - Na2SO3 R - Na2S2O3	
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:				6	MOA		M04.2													G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate	
Email:	WO #:				Sample (Yes or No	(tr))		Ist OL												8	I - Ice J - DI Water	U - Acetone V - MCAA	
Project Name: Highland Plaza - OffSite C915293A	Project #: 48015714				e (Yes	Projet		12.											4		K - EDTA L - EDA	W - pH 4-5 Z - other (specify)	
Site:	SSOW#:				Sampl	Assista		(MOD													Other:		
		Samala	Sample Type	Matrix water, S=soll D=waste/oll,	Filtered	Peracetanilis 30st	ane	8260C/5035A_M (MOD) TCL list OLM04.2 + 1,4- Dloxane												Total Number of			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, G=grab) BT-	D=waste/oil, Tissue, A=Air	)[흔	F-144	NOID	8260 Dlox					- 1		- 1	-			*	Tota	Special Ins	structions/Note:	
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SS-10 (480-117313-10)	5/2/17	09:25 Eastern		Solid	Ц		×	х												. 1			
SS-11 (480-117313-11)	5/2/17	11:35 Eastern		Solid	Ш		х	Х												$A_{i}$			
SS-12 (480-117313-12)	5/2/17	12:00 Eastern		Solid	Ш		х	Х											-	1			
SS-13 (480-117313-13)	5/2/17	09:45 Eastern		Solid			х	х			_									ion.			
SS-14 (480-117313-14)	5/2/17	10:05 Eastern		Solid			x	Х												\$ 100 1100			
SS-15 (480-117313-15)	5/2/17	10:15 Eastern		Solid		Ш	x	х															
SS-DUP1 (480-117313-16)	5/2/17	09:10 Eastern		Solid			х	х												村			
Note: Since laboratory accreditations are subject to change, TestAmerica Labor	atories, Inc. places ti	ne ownership o	of method, analyte	& accredit	tation	compl	iance	e upor	n out s	subcor	ntract	labora	itories	s. This	sam	ple si	nipme	nt is fo	rward	u bet	nder chain-of-custod	ıy. I	
Possible Hazard Identification						Sam	<u> </u>	-		200		may I						es are			ed longer than 1	15.	
Unconfirmed  Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	rable Rank:	2			Spec	_	_		Clien: ns/Q	-	equire		ispos nts:	ai B	y Lai	)	_	Al	rcnr	ve For	Months	
Empty Kit Relinquished by:		Date:			Tir	me:			_	-		_			Vietho	od of	Shipm	nent:		_			
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Relinquished by:	Date/Time:		Co	mpany		-	( Rece	ived b	y:								Date	/Time:			,	Company	
Custody Seals Intact: Custody Seal No.: PE9σ9√		۲.				(	Coole	er Ten	npera	ture(s)	) °C a	nd Oth	ner Re	emarks	s: '-			s į	x x <sub>1</sub>	ř.	24	d8	
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# APPENDIX F DATA USABILITY SUMMARY REPORTS

## **Data Usability Summary Report**

Vali-Data of WNY, LLC 1514 Davis Rd. West Falls, NY 14170

Highland Plaza Project
TestAmerica, Inc. SDG#480-89294-1
March 11, 2016
Reissued: March 22, 2016
Sampling date: 10/14-16, 18/2015

Prepared by: Jodi Zimmerman Vali-Data of WNY, LLC 1514 Davis Rd. West Falls, NY 14170

#### **DELIVERABLES**

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Environmental & Geologic Management Services (reissued; March 22, 2016), project located at Highland Plaza Project, TestAmerica, Inc. SDG#480-89294-1 submitted to Vali-Data of WNY, LLC on February 26, 2016. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D), Pesticides (8081B), PCB (8082A), Herbicides (8151A), Inorganics (6010C), Mercury (7471B) and in accordance with wet chemistry methods.

#### **VOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Internal Standard (IS) Area Performance
- -Surrogate Spike Recoveries
- -Method Blank
- -Field Duplicate Sample Precision
- -Laboratory Control Samples
- -MS/MSD
- -Compound Quantitation
- -Initial Calibration
- -Continuing Calibration
- -GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, Method Blank, MS/MSD, Initial Calibration and Continuing Calibration.

#### **DATA COMPLETENESS**

All criteria were met.

#### NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

Highland Plaza Project SDG# 480-89294-1

Data was not reported to 3 significant figures. This does not affect the usability of the data.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times were met except SB-16 6"-12", SB-16 23'-24' and Field Duplicate #1 were outside the 48 hour method hold time and are qualified with an 'H'. These samples were analyzed within the 14 day hold time, so no further action is required.

#### **INTERNAL STANDARD (IS)**

All criteria were met except the area of all of the internal standards was outside QC limits, low in SB-26 17"-22". The sample was rerun with acceptable results.

#### SURROGATE SPIKE RECOVERIES

All criteria were met except the %Rec of 1,2-Dichloroethane- $d_4$  was outside QC limits, high in SB-20 6"-18". Associated detected target analytes in this sample should be recorded as estimated high.

The %Rec of Toluene- $d_8$  was outside QC limits, low in SB-26 17"-22". Associated target analytes should be qualified as estimated in this sample.

#### **METHOD BLANK**

All criteria were met except Toluene was detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-269355/2-A. Tetrachloroethene was detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-269508/2-A. Acetone, Tetrachloroethene and Methylene Chloride were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-269831/2-A. Acetone and Methylene Chloride were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-269966/2-A. Xylene and Methylene Chloride were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-270108/3-A. If these target analytes are detected in the associated samples below the reporting limit, then they should be qualified as 'non-detect' (U) at the reporting limit.

#### FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

#### LABORATORY CONTROL SAMPLES

All criteria were met.

#### MS/MSD

All criteria were met except the %Rec of Tetrachloroethene was outside QC limits, low in SB-19 6"-18"MS/MSD. The %Rec of 1,2-Dichlorobenzene, Ethyl benzene and Tetrachloroethene was outside QC limits, low in SB-28 10-22". The RPD of 1,2,4-Trimethylbenzene, 1,2-Dichlorobenzene, Chlorobenzene, Ethylbenzene, Toluene and Trichloroethene was outside QC

limits between SB-19 6"-18"MSD and SB-19 6"-18"MSD. These target analytes should be qualified as estimated in the associated sample, matrix spike and matrix spike duplicate.

The %Rec of several other target analytes was outside QC limits in the matrix spike or the matrix spike duplicate but with limits in its counterpart, so no further action is required.

#### **COMPOUND QUANTITATION**

All criteria were met.

#### **INITIAL CALIBRATION**

All criteria were met except the RRF of 1,4-Dioxane was outside ASP outer QC limits in the initial calibrations. This target analyte should be qualified as estimated in the associated samples, blanks and spikes.

The RRF of Trichloroethene was outside QC limits in the initial calibration performed on 10/2/15. ASP allows for up to two target analytes to be outside QC limits without further action.

Alternate forms of regression were performed on all target analytes whose %RSD >20.0%, with acceptable results.

#### **CONTINUING CALIBRATION**

All criteria were met except the %D of 1,4-Dioxane was outside ASP outer QC limits in all of the continuing calibrations. 1,4-Dioxane should be qualified as estimated in the associated blanks, spikes and samples.

The %D of Bromomethane was outside ASP QC limits in CCVIS 480-269965/3 and CCVIS 480-271224/6. The RRF of Trichloroethene was outside QC limits in CCVIS 480-271045/22, 480-271477/2, 480-271334/6 and 480-271723/2. ASP allows for up to two target analytes to be outside QC limits without further action.

#### **GC/MS PERFORMANCE CHECK**

All criteria were met.

#### **SEMIVOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples

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- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in MS/MSD.

#### **DATA COMPLETENESS**

All criteria were met.

#### NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times for the sample were met.

#### **INTERNAL STANDARD (IS)**

All criteria were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met except the %Rec several of the surrogates was outside QC limits due to dilution in AWSS6- 0"-4", AWSS7- 0"-4", AWSS9- 0"-4", AWSS11- 0"-4", SB-24 6"-14" and SB-27 0"-14". No further action is required.

#### **METHOD BLANK**

All the criteria were met.

#### FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

#### LABORATORY CONTROL SAMPLES

All criteria were met.

#### MS/MSD

All criteria were met except the %Rec of Acenaphthene, Fluorene and Pyrene was outside QC limits, low in SB-28 10-22"MS/MSD and should be qualified as estimated in SB-28 10-22" and SB-28 10-22"MS/MSD.

#### **COMPOUND QUANTITATION**

All criteria were met.

#### **INITIAL CALIBRATION**

All criteria were met.

Alternate forms of regression were performed on all target analytes whose %RSD >20.0%, with acceptable results.

#### **CONTINUING CALIBRATION**

All criteria were met.

#### **GC/MS PERFORMANCE CHECK**

All criteria were met.

#### **PESTICIDES**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in Method Blank, MS/MSD, Compound Quantitation and Continuing Calibration.

Highland Plaza Project SDG# 480-89294-1

#### **DATA COMPLETENESS**

All criteria were met.

#### NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times for the samples were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met except the %Rec of the surrogates was diluted out in samples, AWSS6- 0"-4", AWSS7- 0"-4", AWSS9- 0"-4", AWSS11- 0"-4" and AWSS6- 0"-4"MS/MSD. No further action is required.

#### **METHOD BLANK**

All the criteria were met except 4,4'-DDD, alpha-BHC and Endosulfan II were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-269550/1-A. 4,4'-DDE was detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-269760/1-A. If these target analytes were detected below the reporting limit in the associated samples, they should be recorded as 'non-detect' at the reporting limit. If they are detected above the reporting limit in the associated samples, they should be qualified as estimated high.

#### FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

#### LABORATORY CONTROL SAMPLES

All criteria were met.

#### MS/MSD

All criteria were met except several target analytes were diluted out in AWSS6-0"-4"MS/MSD. The %Rec of several target analytes was outside QC limits in SB-28 10-22"MSD but within limits in SB-28 10-22"MS, so no further action is required.

The RPD of 4,4'-DDD, 4,4'-DDE and alpha-Chlordane was outside QC limits between SB-28 10-22"MS and SB-28 10-22"MSD and should be qualified as estimated in SB-28 10-22" and SB-28 10-22"MS/MSD.

#### **COMPOUND QUANTITATION**

All criteria were met except the RPD between the columns was outside QC limits for Endosulfan II in SB-16 6"-12", SB-17 6"-12", SB-17 23'-24', Field Duplicate #1, SB-19 6"-18", SB-28 10-22", SB-24 23'-24' and MB 480-269550/1-A. The RPD between the columns was outside QC limits

for delta-BHC in SB-16 6"-12", SB-28 10-22" and SB-24 23'-24'. The RPD between the columns was outside QC limits for 4,4'-DDT and Endosulfan Sulfate in SB-24 6"-14". The RPD between the columns was outside QC limits for 4,4'-DDT and alpha-BHC in AWSS6- 0"-4"MS. The RPD between the columns was outside QC limits for 4,4'-DDE in AWSS6- 0"-4"MSD. The RPD between the columns was outside QC limits for 4,4'-DDE, 4,4'-DDT and Endosulfan Sulfate in AWSS7- 0"-4". The RPD between the columns was outside QC limits for beta-BHC, 4,4'-DDT and Endosulfan Sulfate in AWSS9- 0"-4". The RPD between the columns was outside QC limits for alpha-BHC in MB 480-269550/1-A. These target analytes should be qualified as estimated in the associated samples.

#### **INITIAL CALIBRATION**

All criteria were met. Linear regression was performed on all target analytes and surrogates with acceptable results.

#### **CONTINUING CALIBRATION**

All criteria were met except the %D of Endosulfan I was outside QC limits in CCV 480-270327/12 off column RTX-CLPI. The %D of Endrin was outside QC limits in CCV 480-270327/23 off column RTX-CLPI. The %D of 4,4'DDT was outside QC limits in CCV 480-270116/18 off column RTX-CLPI. The results for these target analytes should be qualified as estimated in the associated samples, blanks and spikes.

#### PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in Laboratory Control Samples, Initial Calibration and Continuing Calibration.

#### **DATA COMPLETENESS**

All criteria were met.

#### NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times for the samples were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met.

#### **METHOD BLANK**

All the criteria were met.

#### FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

#### LABORATORY CONTROL SAMPLES

All criteria were met except the %Rec of Aroclor 1016 was outside ASP QC limits, high in LCS 480-269558/2-A and should be qualified as estimated high.

#### MS/MSD

All criteria were met.

#### **COMPOUND QUANTITATION**

All criteria were met.

#### **INITIAL CALIBRATION**

All criteria were met except a single point calibration was used for Aroclor 1254. ASP requires a five-point calibration for all detected Aroclors. Aroclor 1254 should be qualified as estimated in all samples in which the peak pattern was identified.

#### **CONTINUING CALIBRATION**

All criteria were met except the %D of DCBP was outside QC limits off column ZB-5 in CCV 480-269669/8, CCV 480-269669/19, CCV 480-269669/28, CCV 480-270054/23, CCV 480-270054/35

and CCV 480-270054/42. DCBP should be qualified as estimated in the associated samples, blanks and spikes off column ZB-5.

The %D of Aroclor 1016 peaks 2, 3, 4 was outside QC limits off column ZB-5 in CCV 480-269669/28. This target analyte should be qualified as estimated in the associated sample, blank and spikes off column ZB-5.

#### **HERBICIDES**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use.

#### **DATA COMPLETENESS**

All criteria were met.

#### NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times for the samples were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met.

#### **METHOD BLANK**

All the criteria were met.

#### FIELD DUPLICATE SAMPLE PRECISION

All the criteria were met.

#### LABORATORY CONTROL SAMPLES

All criteria were met.

#### MS/MSD

All the criteria were met.

#### **COMPOUND QUANTITATION**

All criteria were met.

#### **INITIAL CALIBRATION**

All criteria were met.

Quadratic regression was used on all target analytes and surrogates with acceptable results.

#### **CONTINUING CALIBRATION**

All criteria were met.

#### **METALS**

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Blanks
- -Laboratory Control Sample
- -MS/MSD
- -Field Duplicate
- -Serial Dilution
- -Compound Quantitation
- -Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the

Highland Plaza Project SDG# 480-89294-1

procedures outlined above.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in Blanks, MS/MSD, Serial Dilution and Calibration.

#### **DATA COMPLETENESS**

All criteria were met.

#### NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times were met.

#### **BLANKS**

All criteria were met except Mn was detected in MB 480-269596/1-A and MB 480-269866/1-A above the MDL, below the reporting limit and is qualified as estimated. Associated samples in which this target analyte was detected above the MDL and below the reporting limit should be reported with the reporting limit and 'undetected'. Associated samples in which this target analyte was detected above the reporting limit should be qualified as estimated high.

#### LABORATORY CONTROL SAMPLE

All criteria were met.

#### MS/MSD

All criteria were met except the %Rec of Ba was outside QC limits, high in SB-28 10-22"MS/MSD. Ba was within ASP QC limits in the post digest spike, so no further action is required.

The %Rec of Zn was outside QC limits, low in SB-19 6"-18"MS/MSD. Zn was within ASP QC limits in the post digest spike, so no further action is required.

The %Rec of Zn and Pb was outside QC limits, high in AWSS6-0"-4"MS/MSD. Pb was within ASP QC limits in the post digest spike, so no further action is required for Pb. Zn should be qualified as estimated high in AWSS6-0"-4", if detected.

The %RPD of Ba and Mn was outside QC limits between SB-19 6"-18"MS and SB-19 6"-18"MSD and should be qualified as estimated. The %RPD of Mn was outside QC limits between SB-28 10-22"MSD and should be qualified as estimated.

#### FIELD DUPLICATE

All criteria were met.

#### **SERIAL DILUTION**

All criteria were met except the %D of Zn was outside QC limits in SB-19 6"-18"SD and AWSS6-0"-4"SD. Zn should be qualified as estimated in SB-19 6"-18" and AWSS6-0"-4". The %D of Be, Mn and Zn were outside QC limits in SB-28 10-22"SD and should be qualified as estimated in SB-28 10-22".

#### **COMPOUND QUANITATION**

All criteria were met.

#### **CALIBRATION**

All criteria were met except the %Rec of As was outside QC limits, low in CCVL 480-270286/16. The %Rec of Cu was outside QC limits, low in CCVL 480-270035/25 and CCVL 480-270036/26. The %Rec of Cu and Zn was outside QC limits, low in CCVL 480-270035/37 and CCVL 480-270036/16. The %Rec of Hg was outside QC limits, low in ICVL 480-269774/3. These target analytes should be qualified as estimated low, if detected, and estimated, if not detected, in the associated samples, blanks and spikes.

The %Rec of As was outside QC limits, high in ICVL 480-270035/7, CCVL 480-270035/16 and ICVL 480-270036/7. The %Rec of As and Se was outside QC limits, high in CCVL 480-270036/26. These target analytes should be qualified as estimated high, if detected in the associated samples, blanks and spikes.

#### **GENERAL CHEMISTRY**

The following items/criteria were reviewed for this analytical suite:

- %Solids

The items listed above were technically in compliance with the method and SOP criteria with any exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

#### OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below.

#### **%SOLIDS**

All criteria were met.

# APPENDIX K GROUNDWATER DATA USABILITY SUMMARY REPORT

## **Data Usability Summary Report**

Vali-Data of WNY, LLC 1514 Davis Rd. West Falls, NY 14170

Highland Plaza
TestAmerica Laboratories, Inc. SDG#480-93079-1
March 7, 2016
Sampling date: 12/22/2015

Prepared by: Jodi Zimmerman Vali-Data of WNY, LLC 1514 Davis Rd. West Falls, NY 14170

#### **DELIVERABLES**

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Environmental & Geologic Management Services, project located at Highland Plaza, TestAmerica Laboratories, SDG#480-93079-1, submitted to Vali-Data of WNY, LLC on February 26, 2016. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines. The laboratory performed the analysis using USEPA method Volatile Organics (8260).

#### **VOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Internal Standard (IS) Area Performance
- -Surrogate Spike Recoveries
- -Method Blank
- -Field Duplicate Sample Precision
- -Laboratory Control Samples
- -MS/MSD
- -Compound Quantitation
- -Initial Calibration
- -Continuing Calibration
- -GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in Surrogate Spike Recoveries, Initial Calibration and Continuing Calibration.

Samples; MW-4 and MW-5 were diluted due to high target analyte concentration.

#### **DATA COMPLETENESS**

All criteria were met.

#### NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

Highland Plaza SDG# 480-93079-1

Data was not reported to 3 significant figures. This does not affect the usability of the data.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times were met.

#### **INTERNAL STANDARD (IS)**

All criteria were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met except the %Rec of 1,2-Dichloroethane- $d_4$  was outside ASP QC limits, high in MW-1, MW-2, MW-4, MW-5DL and DUP @ MW-2. Associated, detected target analytes should be qualified as estimated in these samples.

#### **METHOD BLANK**

All criteria were met.

#### FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

#### LABORATORY CONTROL SAMPLES

All criteria were met.

#### MS/MSD

All criteria were met.

#### **COMPOUND QUANTITATION**

All criteria were met.

#### **INITIAL CALIBRATION**

All criteria were met except the RRF of 1,4-Dioxane was outside ASP outer QC limits and should be qualified as estimated in the samples, blanks and spikes.

Alternate forms of regression were performed on all target analytes in the initial calibrations whose %RSD >20.0%.

#### **CONTINUING CALIBRATION**

All criteria were met except the RRF of 1,4-Dioxane was outside ASP outer QC limits in all of the continuing calibrations and should be qualified as estimated in the samples, blanks and spikes.

#### GC/MS PERFORMANCE CHECK

All criteria were met.

# APPENDIX G ENVIRONMENTAL EASEMENT

#### THOMAS WHISSEL

ATTORNEY AND COUNSELOR AT LAW 80 WEST HURON STREET BUFFALO, NEW YORK 14202

OFFICE TELEPHONE - (716) 852-2025 FAX NO. - (716) 852-8013 - AUG 2 8 2017

August 24, 2017

Andrew Guglielmi, Associate Attorney NYS Dept. of Environmental Conservation Bureau of Remediation 625 Broadway, 14<sup>th</sup> Floor Albany, New York 12233-1500

Re:

215 Highland Parkway

Tonawanda, New York Site No. C915293 Owner: Gary Crewson

Dear Mr. Guglielmi:

Thank you for your correspondence of August 14, 2017. Per your instructions, I enclose herewith a copy of the recorded easement with a copy of the recording receipt from the Erie County Clerk's Office attached which shows the document was recorded on August 22, 2017 in Book 11317 at page 6208.

Also enclosed is a copy of my letter to the Office of the Town Clerk of the Town of Tonawanda providing a copy of the recorded easement. This letter was mailed by certified mail, return receipt requested and a copy of the certified mail receipt from the US Postal Service is attached to this letter.

Should anything further be required, please advise.

Very truly yours,

Thomas to hissel

THOMAS WHISSEL

TW/lms Enc.

cc: Mr. Gary Crewson

PEGGY A. LAGREE, ACTING ERIE COUNTY CLERK REF:

DATE:8/22/2017 TIME:1:39:03 PM RECEIPT: 17146235

THOMAS WHISSEL ACCOUNT #: 0

ITEM - 01 785 RECD: 8/22/2017 1:46:55 PM FILE: 2017168610 BK/PG D 11317/6208 Deed Sequence: TT2017001627

CREWSON GARY

PEOPLE OF THE STATE OF NEW YORK (THE) Recording Fees 90.00

**TP584** 

10.00

Subtotal

100.00

TOTAL DUE \$100.00 PAID TOTAL \$100.00 PAID CHECK \$100.00 Check #16821: 100.00

REC BY: Donna G COUNTY RECORDER

FILED

# ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, THE 202 2017 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION AW

CLERK'S OFFICE THIS INDENTURE made this 300 day of AGGGT, 2017, between Owner(s) Gary Crewson, having an address of 5387 Oakridge Drive, Hamburg, New York 14075, County of Erie, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 215 Highland Parkway in the Town of Tonawanda, County of Erie and State of New York, known and designated on the tax map of the County Clerk of Erie as tax map parcel numbers: Section 66.57 Block 2 Lot 8.11, being the same as that property conveyed to Grantor by deed dated December 18, 2014 and recorded in the Erie County Clerk's Office in Liber and Page 11279/9309. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.690 +/acres, and is hereinafter more fully described in the Land Title Survey dated April 14, 2017 prepared by Francis X. Metzger, L.L.S. of Sonnenberger Land Surveying, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

**NOW THEREFORE**, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C915293-04-15, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

- 1. <u>Purposes</u>. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.
- 2. <u>Institutional and Engineering Controls</u>. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.
  - A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

- (2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);
- (3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;
- (4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- (5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- (6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;
- (7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

- (8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- (9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;
- (10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.
- B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.
- C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

- D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.
- E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

#### Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

- G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:
- (1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).
  - (2) the institutional controls and/or engineering controls employed at such site:
    - (i) are in-place;
- (ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and
- (iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;
- (3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;
- (4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;
- (5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- (6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and
  - (7) the information presented is accurate and complete.
- 3. <u>Right to Enter and Inspect</u>. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.
- 4. <u>Reserved Grantor's Rights</u>. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:
- A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;
- B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

#### 5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

- B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.
- C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.
- D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.
- 6. <u>Notice</u>. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C915293

Office of General Counsel

NYSDEC 625 Broadway

Albany New York 12233-5500

With a copy to:

Site Control Section

Division of Environmental Remediation

NYSDEC 625 Broadway Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

- 8. <u>Amendment.</u> Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
- 9. <u>Extinguishment.</u> This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
- 10. <u>Joint Obligation</u>. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Gary C	rewson:	1			
Ву:	Tory	frem	_		_
Print N	ame:Gary	Crewson			-
Title:	0wner	Date:_	July	25,	2017

#### Grantor's Acknowledgment

STATE OF NEW YORK	)			
	) ss:			
COUNTY OF ERIE	)			9.83
On the 25 7	f			
On the discountry	day of <u>July</u>	_, in the year 20	117, before me	, the undersigned
personally appeared Gary	Crewson	, personally known	to me or proved	to me on the basis
of satisfactory evidence t	o be the individ	lual(s) whose name	e is (are) subscr	ribed to the within
instrument and acknowle	edged to me th	hat he/she/they ex	ecuted the sam	ne in his/her/their
capacity(ies), and that by	his/her/their sig	mature(s) on the ir	strument, the ir	dividual(s), or the
person upon behalf of whi				
Thomas 1	Things			

THOMAS WHISSEL
Notary Public, State of New York
Qualified in Erie County
My Commission Expires August 31, 20

Notary Public - State of New York

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner.

By:

Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK
)

SS:

COUNTY OF ALBANY
)

On the 3 day of August, in the year 2017, before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/capacity as Designee

of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Public State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 20

#### SCHEDULE "A" PROPERTY DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Tonawanda, County of Erie and State of New York, being part of Lot No. 33, Township 12, Range 6 of the Holland Land Company's Survey and being Sublot Nos. 35 to 46 inclusive, under Map Cover 1400 according to a map of Highland Park filed in the Erie County Clerk's Office and more particularly described as follows:

COMMENCING at the intersection of the east line of Colvin Boulevard (125 feet wide) with the south line of Highland Parkway (66 feet wide);

Thence easterly along the south line of Highland Parkway a distance of eighty (80.0) feet to the true POINT OF BEGINNING;

Thence easterly along the south line of Highland Parkway a distance of three hundred (300.0) feet to a point;

Thence southerly at right angles to the said south line of Highland Parkway a distance of (100.0) feet to a point;

Thence westerly and parallel with the south line of Highland Parkway a distance of three hundred (300.0) feet to a point;

Thence northerly at right angles to the last described line a distance of one hundred (100.0) feet to the true POINT OF BEGINNING.

Containing  $0.69 \pm Acre$ .

#### THOMAS WHISSEL

ATTORNEY AND COUNSELOR AT LAW 80 WEST HURON STREET BUFFALO, NEW YORK 14202

OFFICE TELEPHONE - (716) 852-2025 FAX NO. - (716) 852-8013

August 23, 2017

CERTIFIED MAIL RETURN RECEIPT REQUESTED

@COPY

Office of the Town Clerk Town of Tonawanda 2919 Delaware Avenue Room 14 Kenmore, New York 14217

Re:

215 Highland Parkway Tonawanda, New York

Ladies and Gentlemen:

I am the attorney for Gary Crewson, the owner of property at 215 Highland Parkway, Tonawanda, New York.

Recently, Mr. Crewson provided an environmental easement to the State of New York, Department of Environmental Conservation. That easement is dated August 3, 2017 and was recorded in the Erie County Clerk's Office on August 22, 2017 in Book 11317 of Deeds at page 6208.

At the direction of the Department of Environmental Conservation, I enclose herewith a copy of the easement that was recorded in August 22, 2017. I also enclose a copy of the recording receipt issued by the Erie County Clerk.

Should you need additional information, please advise.

Very truly yours,

THOMAS WHISSEL

TW/lms Enc.

cc: Gary Crewson

U.S. Postal Service INI
CERTIFIED MAIL IN RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.

BUFALT 122

Postage \$ 50.00

Restricted Delivery Fee (Endorsement Required)

Restricted Delivery Fee (Endorsement Required)

Total Postage & Fees \$ Crew\$872/2016 hland

Sent To Uffice of Town Clerk

Street, Apr. No. win of Tonawanda
or PO Box No. 919 Delaware Ave., Room 14

City, State, Kenmore, NY 14217

PS Form 3800, August 2006

See Reverse for Instructions

# APPENDIX H INSPECTION REPORT SSDS AT 235-237 HIGHLAND PARKWAY DECEMBER 20, 2017



# studio T3

2495 Main Street, Suite 301 Buffalo, NY 14214 phone: (716) 803-6400 fax: (716) 810-9504

December 20, 2017

Highland Plaza, LLC ATTN: Gary Crewson 1800 Broadway

Buffalo, New York 14212

Reference: SSDS System Site Inspections

Dear Mr. Crewson,

I completed an inspection of all four (4) sub-slab depressurization systems (SSDS) at the Highland Plaza in Tonawanda, New York on Tuesday, December 19, 2017. The inspection results are summarized in the table below:

HIGHLAND PLAZA SSDS												
ADDRESS	REFERENCE#	VACUUM	ELECTRIC POWER	PIPING	DRAW	SUCTION						
231 HIGHLAND PARKWAY	B-1	OPERATIONAL	ON	INTACT	SATISFACTORY	AUDIBLE						
235 HIGHLAND PARKWAY	B-2	OPERATIONAL	ON	INTACT	SATISFACTORY	<b>AUDIBLE</b>						
237 HIGHLAND PARKWAY	B-3	OPERATIONAL	ON	INTACT	SATISFACTORY	<b>AUDIBLE</b>						
237 HIGHLAND PARKWAY	B-4	OPERATIONAL	ON	INTACT	SATISFACTORY	AUDIBLE						

Based on the results all four of the soil vapor extraction systems are functional and operating optimally.

Please do not hesitate to contact me with any questions regarding the above.

Andrew Terragnoli, P.E.

TOFESSIONALS