Former American Linen Supply Co. Facility
ERIE COUNTY, NEW YORK

Site Management Plan

NYSDEC Site Number: C915241

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Revisions to Final Approved Site Management Plan:

Revision #	Revisions By	Submitted Date	Summary of Revision	DEC Approval Date
1	Mill Race Commons, LLC	7/29/2021	Update to include NYSDEC-approved Change-in-Use construction project (drainage improvements and parking lot construction) performed in 2020 and decommissioning of MW 101.	
2	Mill Race Commons, LLC; Aramark Uniform & Career Apparel, LLC	9/20/2021	Updated to address additional comments as requested by NYSDEC.	

OCTOBER 2014

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1.0 INTRODUCTION AND DESCRIPTION OF REMEDIAL PROGRAM

1.1 INTRODUCTION

This document is required as an element of the remedial program at the property located at 822 Seneca Street in Buffalo, New York known as the Former American Linen Supply Co Facility (hereinafter referred to as the "Site") under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index # C9 l524l-03-11, Site #C915241, which was executed on May 17, 2011.

1.1.1 General

AmeriPride Services. Inc. entered into a BCA with the NYSDEC to remediate an approximately 2.91-acre property located in Buffalo, New York. This BCA required the Remedial Party, AmeriPride Services, Inc., to investigate and remediate contaminated media at the Site. A figure showing the site location and boundaries of this 2.91-acre Site is provided in Figures 1 and 2. The boundaries of the Site are more fully described in the metes and bounds site description that is part of the Environmental Easement (Appendix A).

After completion of the remedial work described in the Remedial Action Work Plan, some contamination was left in the subsurface at this Site, which is hereafter referred to as 'remaining contamination." This Site Management Plan (SMP) was prepared to manage remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State.

This SMP was initially prepared in October 2014 by Haley & Aldrich of New York, on behalf of AmeriPride Services, Inc. in accordance with the requirements in NYSDEC DER-I 0 Technical Guidance for Site Investigation and Remediation, dated May 2010, and the guidelines provided by NYSDEC. Parties who have made revisions to the SMP and the dates of those revisions are listed in the revisions log on the cover page of this SMP. This SMP addresses the means for implementing the Institutional Controls (ICs) and Engineering Controls (ECs) that are required by the Environmental Easement for the Site.

1.1.2 Purpose

The Site contains contamination left after completion of the remedial action. Engineering Controls have been incorporated into the site remedy to control exposure to remaining contamination during the use of the Site to ensure protection of public health and the environment. An Environmental Easement granted by Mill Race Commons, LLC. the Site Owner, to the NYSDEC, and recorded with the Erie County Clerk, will require compliance with this SMP and all ECs and ICs placed on the Site. The ICs place restrictions on site use, and mandate operation, maintenance, monitoring and reporting measures for all ECs and ICs. This SMP specifies the methods necessary ensure compliance with all ECs and ICs required by the Environmental Easement for contamination that remains at the Site. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Environmental Easement and the grantor's successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

This SMP provides a detailed description of all procedures required to manage remaining contamination at the Site after completion of the Remedial Action, including: (1) implementation and management of all Engineering and Institutional Controls; (2) media monitoring; and (3) performance of periodic inspections, certification of results, and submittal of Periodic Review Reports.

To address these needs, this SMP includes two plans: (1) an Engineering and Institutional Control Plan for implementation and management of EC/ICs; and (2) a Monitoring Plan for implementation of Site Monitoring.

This plan also includes a description of Periodic Review Reports for the periodic submittal of data, information, recommendations, and certifications to NYSDEC.

It is important to note that:

- This SMP details the Site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement the SMP is a violation of the environmental easement, which is grounds for revocation of the Certificate of Completion (COC);
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6NYCRR Part 375 and the BCA (Index #C9 15241-03-11; Site #C915241) for the Site, and thereby subject to applicable penalties.

1.1.3 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. In accordance with the Environmental Easement for the Site, the NYSDEC will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

1.2 SITE BACKGROUND

1.2.1 Site Location and Description

The Site is located in the City of Buffalo, Erie County, New York and is identified as the parcel with section 122.27, Block 1 and Lot 4 on the City of Buffalo Tax Map. The Site is an approximately 2.91-acre area bounded by Seymour Street beyond which are residential properties to the north, Seneca Street beyond which is a newly developed commercial property to the south, Lord Street beyond which are industrial properties and the flying Bison Brewery to the east, vacant and commercial properties to the southwest, and residential properties to the northwest. The boundaries of the Site are more fully described in Appendix A.

1.2.2 Site History

According to a Phase I Environmental Site Assessment Report by C.T. Male Associates, P.C., dated December 2004, the Site building was first developed in 1910. Prior to 1910, the Site is indicated to have been occupied by residential and commercial properties. Between 1910 and 1978, the Site appeared to be used as a book binding and printing facility.

Coverall Service and Supply Co., (Coverall) a uniform cleaning facility, reportedly first occupied the Site in 1978. The facility was used for dry cleaning operations until 1985. Available records indicate that dry cleaning with tetrachloroethylene (PCE) was conducted at the Site between 1978 and 1985; use and/or storage of PCE were not reported after 1985. The laundry operations occupied the first floor of the Site building as well as portions of the basement. Thorner Sydney Press occupied the second floor of the Site building as well as portions of the basement until 1997. According to a purchase agreement dated 1977, Thorner Sydney Press' lease agreement was initiated in 1965.

In April 2004, laundering operations ceased at the Site building. It was used as a laundry depot from April 2004 to spring 2005 and then as a fleet vehicle maintenance shop until July 2005. Operations moved out of the building at the end of July 2005, and it has been vacant since. The Site was acquired by Mill Race Commons, LLC on January 14, 2014.

1.2.3 Geologic Conditions

Geology

The Site is generally flat, sloping slightly to the south, and is situated approximately one mile north of the Buffalo River. The overburden materials (fill and soil) encountered at the Site range in thickness from approximately 14 to 23 feet thick. With the exception of in the former building basement area, which was filled with imported fill following removal of the basement slab, overburden materials at the Site generally consist of some combination of the following.

- **Clean Cover:** Consists of imported fill materials including soil, gravel, and seeded top soil that is present at the ground surface and to a depth ranging between 1 and 2 feet below ground surface (bgs) on the eastern landscaped portion of the site in the location of the former building slab. This material was imported as part of RA activities. Currently, landscaped areas surround the parking lot. See Figure 12.

- **Historic Fill:** Consists of well graded gravel, sand, ash, slag, trace wood and brick, and some clay. A distinct ash fill layer (consisting of approximately 80% ash and slag) was encountered beneath the former first floor building slab area. The fill layer can be found beneath site cover (asphalt or clean cover) to a depth of up to 12 feet bgs. Deeper fill was encountered in proximity to underground storage tanks (USTs). A substantial portion of this historic fill present in the southeast corner of the site beneath the former dry-cleaning area was removed during IRM and remedial action activities, though this material is still present on the northern and western portions of the Site.

- **Unconsolidated Clay Fill:** Consists of brown or gray sandy or silty lean clay with sand and trace amounts of wood, ash and brick. This material differs from the historic fill described above in that it is primarily composed of clay with trace amounts of fill constituents.

- **Swamp Deposits:** Swamp deposits containing organic materials were identified in a small area in the center of the former building slab area. Swamp deposits that remain following remedial excavation activities are generally present in the upper 6 feet of soil.

- **Glaciolacustrinc Deposits:** Consist of native soil deposits of brown and gray clay with sand and silt. This layer may be encountered at depths from approximately I to 18 feet bgs.

- **Glacial Till:** Consists of clayey and silty sands. This layer may be encountered at depths from approximately 12 to 20 feet bgs.

The surface of bedrock or drilling refusal was encountered between 13 and 20 feet bgs (El. 563 to El. 572). The site is situated in the Central Lowlands Physiographic Province, characterized by nearly flat-lying rocks of Devonian, Silurian and Ordovician Age. Bedrock underlying the site is mapped as middle Devonian Onondaga Limestone. Inferred bedrock contours are shown on Figure 3.

Hydrogeology

Groundwater was encountered between El. 575 and El. 581 (January 2014). Groundwater elevation data suggest that groundwater flows toward the south with approximate hydraulic gradient of between 0.01 and 0.08 feet per foot (ft/ft). This southward flow direction is consistent with the expectation that groundwater may be locally controlled by the Buffalo River, which is located less than one mile south of the Site. Hydraulic conductivity was not measured as part of the RI, however hydraulic conductivities in lacustrine silts and clays in North America range between lxl0-4 and
I xi 0-8 m/day[1] · Groundwater flow is shown in Figure 4.

[1] D.A. Stephenson, et. al, 1988

1.3 SUMMARY OF REMEDIAL INVESTIGATION FINDINGS

A Remedial Investigation (RI) was performed to characterize the nature and extent of contamination at the Site. The results of the RI are described in detail in the following reports:

- *Revised Remedial Investigation and Interim Remedial Measures Completion Report, Former American Linen Supply Co Facility, 822 Seneca Street, Buffalo, New York, BCA #C915241,* dated 29 August 2014, prepared by Haley & Aldrich of New York.

Generally, the RI determined that contaminants of concern (COCs) were detected at concentrations in site fill and native soil above relevant standards, criteria, and guidelines (SCGs). COCs were identified based on the multiple detection of any one of a broad suite of organic and inorganic substances that are related to the former site operations and are present at concentrations higher than the relevant SCGs. The SCGs for the Site include the Part 375 Restricted Use Soil Cleanup Objectives (SCOs) for protection of groundwater, commercial use, and industrial use; and the NYS Ambient Water Quality Standards and Guidance Values (class GA) specified in NYSDEC TOGS 1.1. l for groundwater. The COCs identified for Site soils include:

- Target chlorinated volatile organic compounds (CVOCs): tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans- 1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride in soil. The presence of Target CVOCs is consistent with the former dry-cleaning operations at the Site.
- Polycyclic aromatic hydrocarbons (PAHs) and heavy metals (arsenic, copper, lead, and mercury) in historic fill.

The remedial investigation data are described below.

1.3.1 Soil

Remedial investigations for soil conditions included borings, test pits, and surface samples collected from the former parking lot area, the soil beneath the basement slab, and the soil/fill beneath the slab of the slab-on-grade portion of the former building. Prior to soil removal IRM and RA activities, target CVOCs were detected at concentrations exceeding applicable criteria in shallow fill near a former waste oil underground storage tank (UST), and on the southern side of the first-floor slab near the former dry-cleaning operations (proximate to test pit locations TP-16 and TP-18 (Refer to Figure 2). Target CVOCs were also identified in deep native soil, likely as a result of impacted groundwater at depth rather than from a source within the soil at or above the sample location.

The PAHs and metals were identified sporadically within historic fill located throughout the top 5 to 12 feet of the overburden in the former parking lot and first floor slab areas. It is anticipated that those constituents are inherent to the fill itself. which is historic fill and not contaminated as a result of historical building operations.

1.3.2 Site-Related Groundwater

Groundwater samples were collected from discrete locations and from permanent monitoring wells located both on and offsite. Well locations are shown on Figures 2, 4 and 5. Consistent with former site dry-cleaning operations, target CVOCs were also identified in groundwater at concentrations exceeding groundwater standards in two locations on the southern side of the Site in and proximate to the former dry-cleaning area. Groundwater was encountered from approximately 2.75 and 10.5 feet below ground surface and appears to be flowing in a southerly direction (Figure 4). The groundwater table is present in dense lacustrine and glacial till overburden soils with low hydraulic conductivities. The highest total onsite target CVOC concentration detected as of

December 2013 is approximately 140 ug/L, which was detected in MW-3 (post soil removal IRM).

Target CVOC concentrations detected offsite have been very close to or below the groundwater standards, and are indicative of natural attenuation and the downgradient edge of groundwater impacts.

A posting map showing site-wide groundwater conditions is included as Figure 5.

1.3.3 Site-Related Soil Vapor Intrusion

Petroleum-related VOCs were detected in two soil vapor samples (SV-1 and SV-2) located on the southwestern portion of the Site (Figure 2). The detection of these compounds is likely due to the proximity of the sample locations to the former waste oil and fuel USTs. However, based on the low detections of those compounds in soi! and groundwater proximate to the soil vapor sample collection points, it does not appear that soil or groundwater are acting as a source of those vapor concentrations. It is possible that vapor has accumulated over time below the pavement present in that area.

In response to the soil vapor sample results, a soil vapor intrusion investigation was conducted in December 2013 in the basement of 798 Seneca Street, adjacent to the Site. The results identified low levels of PCE in the sub-slab vapor, indoor air, and outdoor air and low levels of TCE in the sub-slab vapor and outdoor air. When compared against Matrix 1 and Matrix 2 of the NYSDOH VI Guidance, no further action was recommended or required.

1.3.4 Underground Storage Tanks

The Phase I Environmental Site Assessment prepared by C.T. Male Associates, P.C., dated December 2004, identified five underground storage tanks (USTs) and one aboveground storage tank (AST) which were located at the Site. Four of the six tanks were previously closed-in-place and two were removed. Limited tank closure documentation exists. The tanks include a removed 10,000-gallon gasoline UST, a removed 1,000-gallon alcohol UST, a closed in-place 20,000-gallon diesel UST, a closed in-place 20,000-gallon No.6 oil UST, a closed in-place 1,500-gallon waste oil UST, and a closed in-place 5,000-gallon heating oil AST located within a vault beneath the sidewalk on the east side of the building along Lord Street.

Two (2) 20,000-gallon underground storage tanks (formerly for storage of diesel and No. 6 oil) are present beneath a concrete slab in the southwest area of the Site adjacent to the former building basement. During the investigation of the 20,000-gallon diesel storage tank and the 20,000-gallon No. 6 oil tank, test pits were advanced adjacent to the tanks. Visual and PID screening dictated where a sample was collected for analysis from the test pits. The sample was analyzed for SVOCs and VOCs. The results indicated that there were no significant petroleum impacts to the soil from the closed in- place tanks.

The closed in-place 5,000-gallon heating oil AST was removed from a subgrade vault in the eastern side of the basement during building demolition. The tank was scrapped, cleaned of oily sludge, and recycled offsite at Niagara Metals in Gasport, New York.

The 1,500-gallon waste oil UST was previously closed in place and filled with concrete. This closed UST was removed as part of remedial activities as described in Section 1.4 below.

1.3.5 Radiological Survey

Gamma walkover survey was conducted by Greater Radiological Dimensions Inc. of Lewiston, New York in August 2014. The Site was traversed, and Gamma readings were compared to background. With the exception of two locations, readings were within background ranges at the Site. The higher readings in the two locations that were outside that range were attributed to building debris at the Site.

1.4 SUMMARY OF REMEDIAL ACTIONS

The Site was remediated in accordance with the NYSDEC-approved work plans:

- *Revised Interim Remedial Measure Work Plan, Soil Excavation and Oily Material Removal, The Former American Linen Supply Company Facility,* *Buffalo, Erie County, New York, BCP Site #C915241,* dated July 2012, prepared by Haley & Aldrich of New York (Basement IRM).

- *Revised Interim Remedial Measure Work Plan, Site Excavation and Grading, The Former American Linen Supply Co. Facility, Buffalo, Erie County, New York, dated September 2013,* prepared by Haley & Aldrich of New York (Soil Removal IRM).
- *Revised Alternatives Analysis Report and Remedial Action Work Plan, Former American Linen Supply Company Facility, 822 Seneca Street, Buffalo, New York, BCA #C915241,* dated August 2014, prepared by Haley & Aldrich of New York.

The following is a summary of the Interim Remedial Measures and Remedial Actions performed at the Site:

I. Removal of former industrial Site features including a sewer vault, USTs, and former building components and excavation of soil/fill exceeding Commercial/Industrial SCOs listed in Table 1 (included in the Tables section of this SMP). This is further described in Section 1.4.1 below.

2. Construction and maintenance of a soil cover system consisting of at least one foot of NYSDEC-approved clean cover material placed over a demarcation layer over the eastern, landscaped portion of the Site to prevent human exposure to remaining contaminated soil/fill remaining at the Site;

3. Maintenance of an impervious asphalt cover over the western, paved area of the Site;

4. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site.

5. 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: (l) Institutional and Engineering Controls, (2) monitoring, and (3) reporting;

Remedial activities were completed at the Site in 2012 through 2014.

1.4.1 Removal of Contaminated Materials from the Site

Prior to remedial activities, the former Site building and associated asbestos-containing and presumed asbestos containing materials, lead based paint, and mercury and PCB containing electrical materials were removed. In addition, the full basement and slab was removed and backfilled with NYSDEC-approved backfill. Those activities were completed in conjunction with remedial investigation activities. Materials removed from the Site during remedial activities are described below.

A list of the soil cleanup objectives (SCOs) for the primary contaminants of concern (COCs) and applicable land use for this Site is provided in Table 1 (refer to Tables section of SMP). Note that Site specific protection of groundwater standards were established for this Site per the RAWP. A figure showing areas where excavation was performed is shown in Figure 6.

- **Removal of Basement Cisterns:** Two former cisterns were removed and stockpiled beneath poly sheeting as part of the Basement IRM and building demolition activities. The concrete was characterized for disposal purposes and disposed of offsite.
- **Removal of Impacted Floor Slab and Soil:** The slab between the cisterns and the soil beneath the slab and cisterns that appeared impacted by oily material were excavated and stockpiled on and beneath poly sheeting. The soils were excavated to approximately 5 to 10 feet below the basement slab and the stockpiled slab and soil were disposed off-site.
- **Removal of Stormwater Vault:** The onsite stormwater network of catch basins drained into a stormwater vault adjacent to Seneca Street. The vault's overflow was connected to the sewer main in Seneca Street. The poured concrete

  storm water vault was decommissioned in October 2013 as part of the Soil

Removal IRM. Sediment within the vault was removed and disposed. To provide access for the removal of the vault walls and bottom, fill material adjacent to the north and east walls was removed and disposed with the sediment. The east and west walls and bottom were removed and crushed for disposal. The south and west walls were cut to approximately 18 inches below the Seneca Street sidewalk. The vault's pipe connection to the sewer at Seneca Street was through the south wall of the vault and was decommissioned by the installation of a brick and mortar plug in December 2013 with oversight from the City of Buffalo Sewer Authority. No sewer piping associated with the vault was removed and therefore no pipe bedding was encountered or excavated during the decommissioning of the stormwater vault.

- **Removal of Waste Oil UST:** The 1,500-gallon waste oil UST was previously closed in placed and filled with concrete. The tank was removed and impacted material surrounding the tank was excavated. Excavation was expanded at the north wall, south wail, and bottom due to confirmation sampling results exceeding the protection of groundwater SCOs. The final excavation was 17 ft wide by 18 ft long by 14 feet deep.

- **Removal of Fill and Soils in the Former Dry-Cleaning Area Impacted by CVOCs:** These excavations included initial targeted removal of shallow fill soils from test pits TP-16 and TP- I 8 as well as supplemental removal of residually impacted soils that remained in place following grading of the former dry-cleaning area.

  - *Removal a/shallow Fill Soils at TP-16 & TP-18:* Soil and fill from these locations were excavated until confirmation sample results indicated concentrations of CVOCs below the protection of groundwater SCOs or until bedrock was encountered, whichever occurred first.

- *Removal of Fill in Former Dry-Cleaning Area and Site Grading:* Historic fill present beneath the former slab-on-grade area was initially excavated to approximately one foot below the site grade level with the surrounding sidewalk elevations per the City of Buffalo's demolition permit requirements as part of the Soil Removal IRM.
- *Supplemental Soil Removal/ram the Former Dry-Cleaning Area:* Following site grading, confirmation samples were collected in a grid formation from the base of the dry-cleaning area excavation. Additional excavation was conducted as part of the Remedial Action activities described in the Remedial Action Work Plan until confirmation sample results indicated concentrations of CVOCs below the site-specific protection of groundwater SCOs.

- **Backfill and Placement of Cover System:** Excavations were backfilled using clean imported cover material from NYSDEC-approved fill source locations to bring the site to grade. A cover system consisting of placement of a demarcation layer and at least one foot of approved clean cover and/or impervious pavement surface was installed over the site. The cover system is further described in Section 2.2.

1.4.2 Site-Related Treatment Systems

No long-term treatment systems were installed as part of the Site remedy.

1.4.3 Remaining Contamination

A total of 1,295 tons of soil and fill were removed from the Site following the IRM and RA activities conducted in 2013 and 2014. Target CVOCs in soil present above site-specific cleanup objectives present in shallow soils beneath the former building were removed via excavation to the extent practical so that they do not present a new source of impact to the groundwater in the absence of an impermeable cover. Target CVOCs were identified during remedial investigation activities and remain in deep native soils beneath the southern corner of the former building basement and below the water table (Figure 7).

Historic fill that contains PAHs and metals remains beneath the paved areas on the western side of the site and beneath cover on the landscaped northern half of the former building slab-on-grade area (Figure 8). A majority of the historic fill that was present beneath the southern half of the former building slab (dry cleaning area) was removed during IRM and RA activities.

Groundwater at the site continues to be impacted by Target VOCs as documented in the August 2014 RI/IRM report; however, it has not significantly migrated offsite to- date. Given that industrial activity no longer occurs at the site, and with the removal of significant amounts of Target VOC impacted fill material from beneath the building, it is anticipated that groundwater conditions will improve with time. Groundwater will continue to be monitored as part of site management activities. Groundwater use is prohibited at the Site and it is serviced by public water.

2.0 ENGINEERING AND INSTITUTIONAL CONTROL PLAN

2.1 INTRODUCTION

2.1.1 General

Since remaining contaminated soil, groundwater, and soil vapor exists beneath the Site, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment. This Engineering and Institutional Control Plan describes the procedures for the implementation and management of all EC/I Cs at the Site. The EC/IC Plan is one component of the SMP and is subject to revision by NYSDEC.

2.1.2 Purpose

This plan provides:

- A description of all EC/I Cs on the Site;
- The basic implementation and intended role of each EC/IC;
- A description of the key components of the ICs set forth in the Environmental Easement;

- A description of the features to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of EC/ICs, such as the implementation of the Excavation Work Plan for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the Site; and
- Any other provisions necessary to identify or establish methods for implementing the EC/ICs required by the site remedy, as determined by the NYSDEC.

2.2 ENGINEERING CONTROLS

2.2.1 Engineering Control Systems

2.2.1.1 Cover System

Exposure to remaining contamination above the commercial use and protection of groundwater SCOs 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 of clean soil, asphalt pavement, or concrete cover. Specifically, the cover system consists of the following elements as described below and shown on Figure 9:

- **Pavement Area:** This area was formerly parking lots and driveways associated with the former dry cleaner. The cover system in this area consists of asphalt and/or concrete.
- **Former Building Slab Area:** The area that was the slab-on-grade portion of the former building is improved with a demarcation layer consisting of geotextile fabric placed over remaining historic fill and native soils above which is a minimum of I foot of NYSDEC approved cover material that meets NYSDEC imported fill requirements for commercial use. The area was seeded for aesthetic purposes and erosion control.

- **Former Building Basement Area:** The area that was the location of the basement of the former Site building does not require site cover. The basement was removed and the excavation was subsequently backfilled with up to 10 feet of NYSDEC approved cover material that meets NYSDEC imported fill requirements for commercial use. The area was seeded for aesthetic purposes and erosion control.

The Excavation Work Plan that appears in Appendix B outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed and any underlying remaining contamination is disturbed.

Procedures for the inspection and maintenance of this cover are provided in the Monitoring Plan included in Section 4 of this SMP.

Select areas of the cover system were modified in 2020 during the implementation of the Change in Use Plan (see Figure 13). The purpose of the Change In Use Plan was to allow for (1) use of the site as a parking lot and (2) to replace and repair the deteriorating condition of the former parking lot which was left in place as part of the cover remedy under the original approved Site Remediation Plan. Changes to the cover system included:

- selected areas of the cover system were replaced with a layer of clean top soil over a woven geotextile demarcation layer. The minimum thickness of the soil cover placed in this area was 1’ in order to meet the standard for a cover system outlined in the Certificate of Completion for the Site. Clean fill was imported to the Site for backfill as well as site cover modification and repairs. AFI collected samples of this soil prior to import to the site at a sampling frequency outlined by Table 5.4(e)10 in DER-10.
- the importation of type 7 asphalt to upgrade the existing asphalt area on the western portion of the property.
- After the placement of the minimum 1’ of clean soil, the area was hydroseeded in order to stabilize the area.

- The new cover system for the Site can be seen in Figure 12.

2.2.2 Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when effectiveness monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.6 of NYSDEC DER-10.

2.2.2.1 Cover System

The cover system is a permanent control, and the quality and integrity of this system will be inspected at defined, regular intervals until which time the Environmental Easement is extinguished pursuant to ECL Article 71, Title 36.

2.2.2.2 Monitored Natural Attenuation

Groundwater monitoring activities will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC standards or have become asymptotic at an acceptable level over an extended period.

Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

2.3 INSTITUTIONAL CONTROLS

A series of Institutional Controls is required by the Decision Document to: (I) implement, maintain and monitor Engineering Control systems; (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 or industrial uses only. Adherence to these Institutional Controls on the Site is required by the Environmental Easement and will be implemented under this Site Management Plan. These Institutional Controls are:

- Compliance with the Environmental Easement and this SMP by the Grantor and the Grantor's successors and assigns:

- The Controlled Property may be used for Commercial use as described in 6 NYCRR Part 375-l.8(g)(2)(iii) and Industrial use as described in 6 NYCRR Part 375- l.8(g)(2)(iv);
- All Engineering Controls must be operated and maintained as specified in this SMP;
- All Engineering Controls on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP.
- 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;
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in this SMP;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Operations, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;
- 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.
- The potential for vapor intrusion must be evaluated for any buildings developed at the Site, and any potential impacts that are identified must be monitored or mitigated;

- Vegetable gardens and farming on the property are prohibited;
- The Site Owner will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (l) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Institutional Controls identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

2.3.1 Excavation Work Plan

The Site has been remediated for commercial and industrial use. Any future intrusive work that will penetrate the soil cover, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system will be performed in compliance with the Excavation Work Plan (EWP) that is attached as Appendix B to this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) prepared for the Site. A sample HASP is attached as Appendix C to this SMP that is in current compliance with DER- I 0, and 29 CFR 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations.

The Generic NYSDOH Community Air Monitoring Plan is attached as Appendix D. Based on future changes to State and federal health and safety requirements, and specific methods employed by future contractors, the HASP and CAMP will be updated and re- submitted with the notification provided in Section A-I of the EWP. Any intrusive construction work will be performed in compliance with the EWP, HASP and CAMP, and will be included in the periodic inspection and certification reports submitted under the Site Management Reporting Plan (See Section 5).

The Site Owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all intrusive work, the structural integrity of excavations, proper disposal of excavation de-water, control of runoff from open excavations into remaining contamination, and for structures that may be affected by excavations (such as building foundations and bridge footings). The Site Owner will ensure that site development activities will not interfere with, or otherwise impair or compromise, the engineering controls described in this SMP.

2.3.2 Soil Vapor Intrusion Evaluation

Prior to the construction of any enclosed structures located over areas that contain remaining contamination and the potential for soil vapor intrusion (SVI) has been identified, an SVI evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. Alternatively, an SVI mitigation system may be installed as an element of the building foundation without first conducting an investigation. This mitigation system will include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

Prior to conducting an SVI investigation or installing a mitigation system, a work plan will be developed and submitted to the NYSDEC and NYSDOH for approval. This work plan will be developed in accordance with the most recent NYSDOH "Guidance for Evaluating Vapor Intrusion in the State of New York". Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the SVI evaluation, the NYSDOH guidance, and construction details of the proposed structure.

Preliminary (unvalidated) SVI sampling data will be forwarded to the NYSDEC and NYSDOH for initial review and interpretation. Upon validation, the final data will be transmitted to the agencies, along with a recommendation for follow-up action, such as mitigation. Validated SVI data will be transmitted to the property owner within 30 days of validation. If any indoor air test results exceed NYSDOH guidelines, relevant NYSDOH fact sheets will be provided to all tenants and occupants of the property within 15 days of receipt of validated data.

Future indoor air sampling at 798 Seneca Street may be required depending on future groundwater monitoring data (See Section 3).

SVI sampling results, evaluations, and follow-up actions will also be summarized in the next Periodic Review Report.

2.4 INSPECTIONS AND NOTIFICATIONS

2.4.1 Inspections

Inspections of all remedial components installed at the Site will be conducted at the frequency specified in the SMP Monitoring Plan schedule. A comprehensive site- wide inspection will be conducted annually, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether Engineering Controls continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- Sampling and analysis of appropriate media during monitoring events;
- If Site records are complete and up to date; and
- Changes, or needed changes, to the remedial or monitoring system; Inspections will be conducted in accordance with the procedures set forth in the Monitoring Plan of this SMP (Section 3). The reporting requirements are outlined in the Periodic Review Reporting section of this plan (Section 5).

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the EC/I Cs implemented at the Site by a Qualified Environmental Professional as determined by NYSDEC.

2.4.2 Notifications

Notifications will be submitted by the Site Owner to the NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the Brownfield Cleanup Agreement (BCA), 6NYCRR Part 375, and/or Environmental Conservation Law.
- 7 day advanced notice of any field activity associated with the remedial program.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan. If the ground-intrusive activity qualifies as a change of use as defined in 6 NYCRR Part 375, the above mentioned 60-day advance notice is also required.
- Notice within 48-hours of any damage or defect to the foundation, structures or engineering control that reduces or has the potential to reduce the effectiveness of an Engineering Control and likewise any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following business day of any emergency, such as a fire, f1ood, or earthquake that reduces or has the potential to reduce the effectiveness of Engineering Controls in place at the Site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the Brownfield Cleanup Agreement (BCA), and all approved work plans and reports, including this SMP
- Within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing.

2.5 CONTINGENCY PLAN

Emergencies may include injury to personnel, fire or explosion, environmental release, or serious weather conditions.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the EC/ICs implemented at the Site by a Qualified Environmental Professional as determined by NYSDEC.

2.5.1 Emergency Telephone Numbers

In the event of any environmentally related situation or unplanned occurrence requiring assistance, the Site Owner or Site Owner's representative(s) should contact the appropriate party from the contact list below. For emergencies, appropriate emergency response personnel should be contacted. These emergency contact lists must be maintained in an easily accessible location at the Site.

Table 2: Emergency Contact Numbers

Medical, Fire, and Police:	911
One Call Center:	(800) 272-4480 (3 day notice required for utility markout)
Poison Control Center:	(800) 222-1222
Pollution Toxic Chemical Oil Spills:	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362
Dig Safely NY	(1-800) 962-7692 or 811

Table 3: Other Contact Numbers

Megan Kuczka NYSDEC	(716) 851-7220
Julia Kenney NYSDOH	(518) 402-7860

* Note: Contact numbers subject to change and should be updated as necessary

2.5.2 Map and Directions to Nearest Health Facility

Site Location: 822 Seneca Street, Buffalo, NY

Nearest Hospital Name: Buffalo General Medical Center

Hospital Location: 100 High Street, Buffalo, NY

Hospital Telephone: (716) 859-5600

Directions to the Hospital:

1. Head southeast on Seneca Street toward Lord Street
2. Turn right at Smith Street
3. Turn right to merge onto 1-190 N toward Niagara Falls
4. Take exit 6 toward Elm Street
5. Keep left at the fork and merge onto Elm Street

6. Turn left at Goodell Street

7. Turn right at Ellicott Street

8. Turn right at High Street

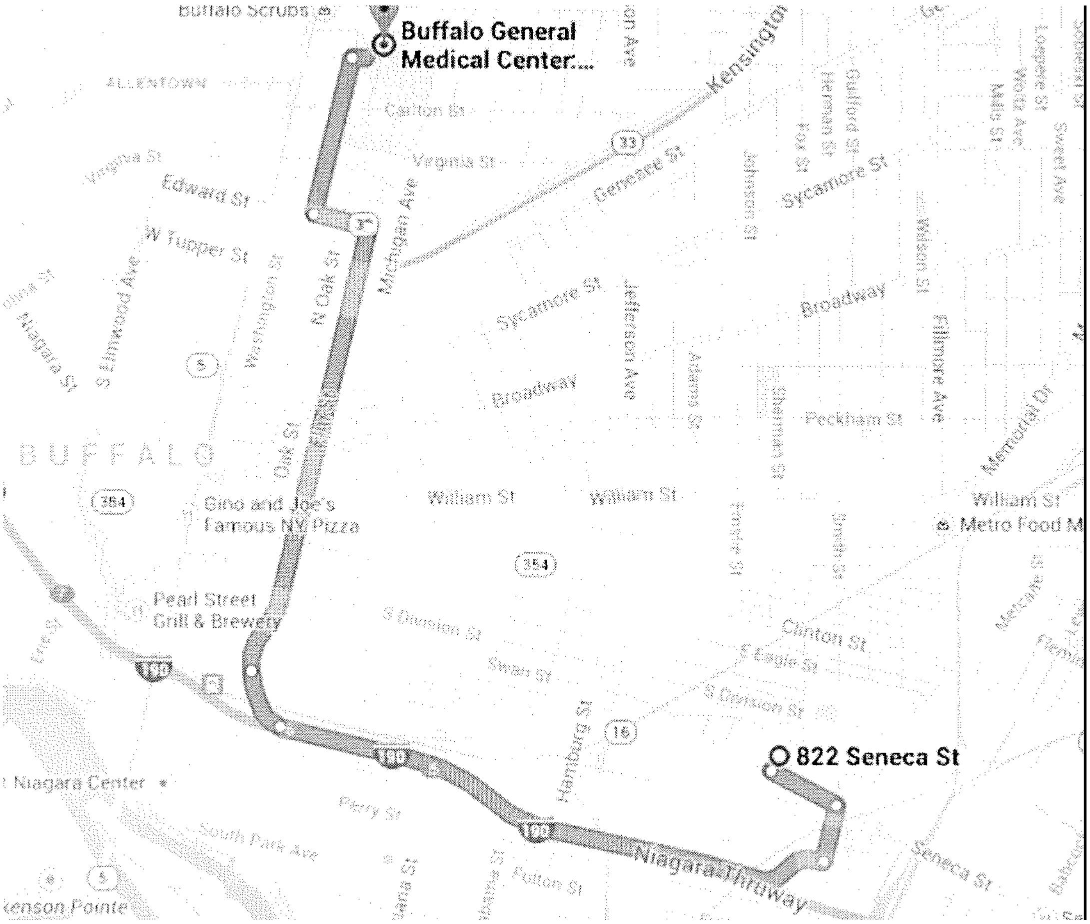
9. Buffalo General Medical Center will be on the left

Total Distance: 3.5 miles

Total Estimated Time: 10 minutes

Map Showing Route from the Site to the Hospital:

Figure 10



2.5.3 Response Procedures

As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency. The emergency telephone number list is found at the beginning of this Contingency Plan (Table 2). The list will also be posted prominently at the Site and made readily available to all personnel at all times.

3.0 SITE MONITORING PLAN

3.1 INTRODUCTION

3.1.1 General

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the soil cover system, and all affected site media identified below. This Monitoring Plan may only be revised with the approval of NYSDEC.

3.1.2 Purpose and Schedule

This Monitoring Plan describes the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater, indoor air, soil vapor, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards and Part 375 SCOs for soil;
- Assessing achievement of the remedial performance criteria.
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and
- Preparing the necessary reports for the various monitoring activities.

To adequately address these issues, this Monitoring Plan provides information on:

- Sampling locations, protocol, and frequency;
- Information on all designed monitoring systems (e.g., well logs);
- Analytical sampling program requirements;
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and
- Annual inspection and periodic certification.

Periodic monitoring of the remedy and overall reduction in contamination on-site will be conducted per the table below for the first 5 years following receipt of the COC. The frequency thereafter will be determined by NYSDEC. Trends in contaminant levels in groundwater in the affected areas, will be evaluated to determine if the remedy continues to be effective in achieving remedial goals. Monitoring programs are summarized in Table 4 and outlined in detail in Sections 3.2 and 3.3 below.

Table 4: Monitoring/Inspection Schedule

Monitoring Program	Frequency*	Matrix	Analysis
Cover System	Annual Inspection	N/A	Visual only
Groundwater	Semi-annual for 2 years; annual thereafter beginning 2017	Groundwater	Target CVOCs (PCE, TCE, cis-1.2-DCE, vinyl chloride)

Soil Vapor/Indoor Air	If two (2) consecutive groundwater monitoring events indicate increase in Target CVOC concentrations at MW-102R, then soil vapor and indoor air sampling may be warranted at the 798 Seneca Street residence and will be discussed with the NYSDEC and NYSDOH.	Soil Vapor & Indoor Air	Target CVOCs (PCE, TCE, cis-1,2-DCE, vinyl chloride)

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH.

3.2 COVER SYSTEM MONITORING

The cover system must be maintained at all times, and must be replaced in-kind should it be breached as described in the Excavation Work Plan (Appendix 8).

The cover will be inspected on an annual basis. If significant areas of distress are noted, they will be repaired to a condition required by this SMP. The cover will be

repaired in-kind if it is damaged during any subsurface work (e.g. utilities). Monitoring of the cover will be reported in the Periodic Review Report.

3.2.1 Asphalt Cover Monitoring

Based upon the findings of periodic inspections, the maintenance needs of the asphalt cover will be evaluated, and corrective actions will be taken when necessary. A brief summary of the key maintenance concerns and the respective corrective actions is provided below:

- ½ -inch or Greater Cracks or Pot Holes Exposing the Sub-Base will be sealed or repaired to restore the asphalt cover.
- Vegetation will be removed and the associated impact, hole, or crack will be sealed or repaired to restore the asphalt cover.

3.2.2 Vegetated Cover Monitoring

Based upon the findings of periodic inspections, the maintenance needs of the vegetated cover will be evaluated and corrective actions will be taken when necessary. A brief summary of the key maintenance concerns and the respective corrective actions is provided below:

- Erosion Problems Observed: Areas where erosion problems (i.e., rills or gullies) are observed will be repaired by re-grading the localized area, adding the required fill material and/ or topsoil, and reseeding/ replanting as necessary.
- Indications of Animal, Rodent, or Insect Disturbance Observed: If burrowing animals are observed breaching the soil cover, as evidenced by exposed fill material, they will be eradicated by a licensed exterminator.

3.3 MEDIA MONITORING PROGRAM

3.3.1 Groundwater Monitoring

Groundwater monitoring is currently performed by the Remedial Party on an annual basis.

Target chlorinated volatile organic compounds (CVOCs), including tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride, was initially monitored in the network of on-site and off-site wells described below, and is currently monitored on-site only.

The initial network of monitoring wells was installed to monitor both up-gradient and down-gradient groundwater conditions at the Site. The network of on-site and off- site wells was designed based on the following criteria:

- Representation of the downgradient area to evaluate offsite migration to the south and east.
- Representation of overburden and bedrock groundwater conditions to evaluate natural degradation of dry cleaning-related compounds over time in the former

dry-cleaning area.

- The condition of the wells and accessibility for ongoing maintenance and monitoring.

The monitoring well network is summarized in the Table 5 below and incorporates changes since the initial network was established in 2014. MW-302 was formerly in the program but was damaged and unusable. The NYSDEC approved removal of well MW-302 from the sampling program on 5 May 2016. In 2018, groundwater monitoring results indicated that Target CVOCs concentrations were stabilizing close to or below the NYSDEC groundwater standards and significantly below pre-remediation conditions. In a letter dated 23 April 2019, NYSDEC approved reducing the groundwater sampling to on-site wells MW-102R, MW-105 and MW-106 as proposed in the 2019 Annual Periodic Review Report.

NYSDEC approved the removal of MW-101 via e-mail correspondence on 13 May 2020 in order for Mill Race Commons to complete upgrades to the parking lot. The work was performed on June 8th, 2020 by Earth Dimensions Inc. via tremie grouting in place. The flush mount protective casing was removed following grouting and the surface was restored with asphalt patch material. A NY State licensed professional geologist was onsite to observe the work on behalf of Benchmark. A copy of the Decommissioning Report is attached as Appendix “J.” In June 2020, MW-101 was decommissioned by Mill Race Commons, LLC, the Site Owner, with the NYSDEC’s approval via e-mail correspondence dated 13 May 2020. MW-102R was re-surveyed due to the cover system modifications (see Appendix E).

Baseline water quality data is shown on Figure 5. Monitoring well locations are shown on Figure 11. Groundwater contours from 2014 are included in Figure 4. Monitoring well construction logs are included in Appendix E for reference.

The sampling frequency may be modified with the approval of the NYSDEC. The SMP will be modified to reflect changes in sampling plans approved by NYSDEC.

Deliverables for the groundwater monitoring program are specified below.

Table 5: Monitoring Well Network Summary

Well ID	Location	Casing Diameter	Screen Depth	Baseline Conditions (2013)	Analytes to be Tested
MW-101	Onsite Overburden	2 inch	13.2-18.2 ft.	Target CVOCs non-detect	Removed from program. Well decommissioned.
MW-102R	Onsite Overburden	2 inch	6.5-11.5 ft.	Cis-1,2-DCE and vinyl chloride above TOGS	Target CVOCs
MW-103	Onsite Overburden	2 inch	7.3-12.3 ft.	Target CVOCs non-detect	Water levels only
MW-104	On site Overburden	2 inch	8.1-13.1 ft.	Target CVOCs non-detect	Water levels only
MW-105	Onsite Overburden	2 inch	9.2-14.2 ft.	Cis-1,2-DCE above TOGS	Target CVOCs
MW-106	Onsite Overburden	2 inch	9.4-14.4 ft.	Cis-1,2-DCE and vinyl chloride above TOGS	Target CVOCs
MW-301	Offsite Overburden	2 inch	13.5- 18.5 ft.	Target CVOCs not detected above TOGS	Water levels only
MW-302	Offsite Overburden	2 inch	12.8-17.5 ft.	Vinyl chloride slightly above TOGS	Removed from program. Well destroyed.
MW-303	Offsite Overburden	2 inch	11.1-15.8 ft.	Target CVOCs not detected above TOGS	Water levels only

3.3.1.1 Sampling Protocol

All monitoring well sampling activities will be recorded in groundwater sampling forms presented in Appendix F. Other observations (e.g., well integrity, etc.) will be noted on the well sampling log. The well sampling log will serve as the inspection form for the groundwater monitoring well network. Sampling protocol is as follows:

I. Prior to sampling, static water levels shall be measured from each well in the network and documented in the log (Appendix F).

2. Each well will be purged using a submersible pump or dedicated bailer three well volumes or until the well is dry, whichever occurs first.

3. Following purging, VOC samples will be collected using a dedicated bailer and collected in laboratory provide bottles.

4. The samples will be labeled as follows:

   Well ID-Date (YYMMDD)-Time (24 hour) *(e.g., MW102R-071713-1310)*

5. Samples will be cooled to 4°C or less and shipped/couriered to an ELAP Certified Laboratory for analysis of VOCs via EPA Method 8260.

3.3.1.2 Monitoring Well Repairs, Replacement And Decommissioning

If biofouling or silt accumulation occurs in the on-site and/or off-site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced (as per the Monitoring Plan), if an event renders the wells unusable.

Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance. Monitoring wells will be visually inspected during each sampling event. Damaged or missing components (e.g., missing bolts, damaged well covers, poor surface seals, etc.) will be documented and the well will be repaired or replaced prior to the next sampling event.

The NYSDEC will be notified prior to any repair or decommissioning of monitoring wells for the purpose of replacement and the repair or decommissioning and replacement process will be documented in the subsequent periodic report. Well decommissioning without replacement will be done only with the prior approval of NYSDEC. Well abandonment will be performed in accordance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be reinstalled in the nearest available location, unless otherwise approved by the NYSDEC.

3.3.2 Sub-slab Vapor and Indoor Air Monitoring

Testing was conducted in December 2013 at adjacent 798 Seneca Street property as reported in the Revised Remedial Investigations and Interim Remedial Measure Completion Report dated 29 August 2014 Low levels of PCE and TCE were detected in
the sub-slab vapor and PCE was detected in the indoor air at that time. The detections however were well below the New York State Department of Health (NYSDOH) October 2006 Soil Vapor Intrusion Guidance thresholds for monitoring or mitigation.

If results of ongoing monitoring indicate that there is an increasing trend of CVOCs in MW-102R, and the adjacent property at 798 Seneca Street continues to be utilized as a residence, indoor air and sub-slab vapor monitoring may be warranted per discussion with the NYSDEC and NYSDOH. Sub-slab vapor and indoor air monitoring will include sampling for target CVOCs, including tetrachloroethene, trichloroethene, cis- 1,2-dichloroethene, and vinyl chloride.

If sub-slab vapor, indoor air, and outdoor air sampling is required per groundwater monitoring results in MW-I 02R, the sampling frequency will be determined with the approval of the NYSDEC.

3.3.2.1 Sampling Protocol

If sampling is required, it will be conducted by the Remedial Party in accordance the October 2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York or the most recent prevailing guidance. Sampling protocol is as follows:

I. Prior to sampling, an inventory of the basement of the structure will be conducted to remove and rule out potential indoor air sources that may impact the sample results.

2. A sub-slab vapor point will be installed beneath basement floor slab in a central location in accordance with the NYSDOH guidance that will be constructed of inert tubing and sealed with hydrated bentonite.

3. Approximately 24 hours following the inventory and point installation, a SUMMA canister calibrated with a flow controller to collect air over a 24-hour period will be connected to the sub-slab vapor point. Prior to connecting the can, a Helium Tracer Gas test will be used to assess for leaks to the point.
4. Two additional SUMMA cans with 24-hour flow controllers will be set up - one in the basement on an elevated surface to evaluate indoor air quality, and one outside of the residence in an upwind location to assess outdoor air quality.
5. The cans will be retrieved approximately 24 hours later and analyzed for target CVOCs (PCE, TCE, cis-1,2-DCE, and vinyl chloride) via EPA method TO-15.
6. The results will be reported in the subsequent Periodic Review Report. In addition, validated SVI data will be transmitted to the property owner within 30 days of validation. If any indoor air test results exceed NYSDOH guidelines, relevant NYSDOH fact sheets will be provided to all tenants and occupants of the property within 15 days of receipt of validated data.

3.4 SITE-WIDE INSPECTION

Site-wide inspections will be performed on a regular schedule once a year. Site- wide inspections will also be performed after all severe weather conditions that may affect Engineering Controls or monitoring devices. All inspections will be documented. During these inspections, an inspection form will be completed (Appendix F). The documentation will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where

appropriate, confirmation sampling and a health and safety inspection;

- Confirm that site records are up to date.

3.5 MONITORING QUALITY ASSURANCE/QUALITY CONTROL

All sampling and analyses will be performed in accordance with the requirements of the Quality Assurance Project Plan (QAPP) prepared for the Site (Appendix G). Main Components of the QAPP include:

- QA/QC Objectives for Data Measurement;
- Sampling Program:
  - Sample containers will be properly washed, decontaminated, and appropriate preservative will be added (if applicable) prior to their use by the analytical laboratory. Containers with preservative will be tagged as such.
  - Sample holding times will be m accordance with the NYSDEC ASP requirements.
  - Field QC samples (e.g., trip blanks, coded field duplicates, and matrix spike/matrix spike duplicates) will be collected as necessary.
- Sample Tracking and Custody;
- Calibration Procedures:
  - All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.
  - The laboratory will follow all calibration procedures and schedules as specified in USEPA SW-846 and subsequent updates that apply to the instruments used for the analytical methods.
- Analytical Procedures;
- Preparation of a Data Usability Summary Report (DUSR), which will present the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody procedures, and a summary assessment of precision, accuracy,

representativeness, comparability, and completeness for each analytical method.

- Internal QC and Checks;
- QA Performance and System Audits;
- Preventative Maintenance Procedures and Schedules;
- Corrective Action Measures.

3.6 MONITORING REPORTING REQUIREMENTS

Forms and any other information generated during regular monitoring events and inspections will be kept on file by the Site Owner or its representatives. All forms, and other relevant reporting formats used during the monitoring/inspection events, will be (1) subject to approval by NYSDEC and (2) submitted at the time of the Periodic Review Report, as specified in the Reporting Plan of this SMP.

All monitoring results will be reported to NYSDEC on an annual basis in the Periodic Review Report. The report will include, at a minimum:

- Date of event;
- Personnel conducting sampling;
- Description of the activities performed;
- Type of samples collected (e.g., sub-slab vapor, indoor air, outdoor air, etc);
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation, etc.);
- Sampling results in comparison to appropriate standards/criteria;
- A figure illustrating sample type and sampling locations;
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format);
- Any observations, conclusions, or recommendations; and

- A determination as to whether groundwater conditions have changed since the last reporting event.

Data will be reported in hard copy or digital format as determined by NYSDEC. A summary of the monitoring program deliverables arc summarized in Table 6 below.

Table 6: Schedule of Monitoring/Inspection Reports

Task	Reporting Frequency*
Cover System Monitoring	Annual
Groundwater Monitoring	Annual
Soil-slab/ Indoor Air Monitoring	Reported Annually if Conducted

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC

4.0 OPERATION AND MAINTENANCE PLAN

4.1 INTRODUCTION

The Site remedy does not rely on any mechanical systems, such as sub-slab depressurization systems or air sparge/ soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP.

If mechanical systems are required in the future (i.e., if future site buildings are constructed which require a sub-slab depressurization system), then this SMP will be amended to include the operation and maintenance components.

5.0 INSPECTIONS, REPORTING AND CERTIFICATIONS

5.1 SITE INSPECTIONS

5.1.1 Inspection Frequency

All inspections will be conducted at the frequency specified in the schedules provided in Section 3 Monitoring Plan of this SMP. At a minimum, a site-wide inspection will be conducted annually. Inspections of remedial components will also be conducted whenever a severe condition has taken place, such as an erosion or flooding event that may affect the ECs.

5.1.2 Inspection Forms, Sampling Data, and Maintenance Reports

All inspections and monitoring events will be recorded on the appropriate forms which are contained in Appendix F). Additionally, a general site-wide inspection form will be completed during the site-wide inspection (see Appendix F). These forms are subject to NYSDEC revision.

All applicable inspection forms and other records, including all media sampling data and system maintenance reports, generated for the Site during the reporting period will be provided in electronic format in the Periodic Review Report.

5.1.3 Evaluation of Records and Reporting

The results of the inspection and site monitoring data will be evaluated as part of the EC/IC certification to confirm that the:

- EC/ICs are in place, are performing properly, and remain effective;
- The Monitoring Plan is being implemented;
- The Site remedy continues to be protective of public health and the environment and is performing as designed in the RAWP and FER.

5.2 CERTIFICATION OF ENGINEERING AND INSTITUTIONAL CONTROLS

After the last inspection of the reporting period, a Qualified Environmental Professional will prepare the following certification:

For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;

- The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any Site management plan for this control;
- Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document;
- Use of the Site is compliant with the Environmental Easement;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and
- The information presented in this report is accurate and complete;
- No new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid; and
- 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, ___(Name)_, of ________(Company)______, am certifying as _______(owner or owners

representative) , for the Site.

- *Every five years the following certification will be added*: The assumptions made in the qualitative exposure assessment remain valid.

The signed certification will be included in the Periodic Review Report described below.

5.3 PERIODIC REVIEW REPORT

A Periodic Review Report will be submitted to the Department every year, beginning fifteen months after the Certificate of Completion is issued. In the event that the Site is subdivided into separate parcels with different ownership, a single Periodic Review Repo11 will be prepared that addresses the Site described in Appendix A. The report will be prepared in accordance with NYSDEC DER-10 and submitted within 30 days of the end of each certification period. Media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the Site;
- Results of the required annual site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the site during the reporting period in electronic format;
- Data summary tables and graphical representations of contaminants of concern for groundwater, which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends;
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format;

- A Site evaluation, which includes the following:
    - o The compliance of the remedy with the requirements of the Decision Document.
    - o Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
    - o Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
    - o The overall performance and effectiveness of the remedy.

The Periodic Review Report will be submitted, in hard-copy and in electronic format, to the NYSDEC Regional Office in which the Site is located, and in electronic format to the NYSDOH Bureau of Environmental Exposure Investigation.

5.4 CORRECTIVE MEASURES PLAN

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a corrective measures plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the corrective measures plan until it is approved by the NYSDEC.

6.0 SITE MANAGEMENT PLAN CERTIFICATION

I, Mark N. Ramsdell, P.E., certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

STATE OF NEW YORK ☆ MARK N. RAMSDELL ☆ 71627 LICENSED PROFESSIONAL ENGINEER

Mark N. Ramsdell — 10/29/14

Mark N. Ramsdell, P.E. — Date

6.1 SITE MANAGEMENT PLAN CERTIFICATION FOR UPDATES DATED 9/20/21

I, Thomas Forbes, P.E., certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Site Management Plan Update was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Thomas H. Forbes, P.E.

11-1-21

Date

TABLES

Table 1 – Criteria for Cleanup, Import, and Re-use of Soil

Tables 2 – 6 are located within the SMP text
Tables B1 – B3 are located within the Appendix B text

TABLE 1 -
CRITERIA FOR CLEANUP, IMPORT, AND RE-USE OF SOIL
FORMER AMERICAN LINEN SUPPLY CO FACILITY
BUFFALO, NEW YORK
BCP SITE #C915241

	NYSDEC Soil Cleanup Objectives (Restricted Use)			Eastern United States Background Levels
	Protection of Groundwater (ppm)	Commercial Use (ppm)	Imported Fill Requirements (ppm)	
Metals				
Arsenic	16 [2]	16 [2]	16 [2]	3-12
Barium	820	400	400	15-600
Beryllium	47	590	47	0-1.75
Cadmium	7.5	9.3	7.4	0.1-1
Chromium, hexavalent[1]	19	400	19	1.5-40
Chromium, trivalent[1]	--	1500	1500	1.5-40
Copper	1720	270	270	1-50
Total Cyanide[1]	40	27	27	--
Lead	450	1000	450	200-500
Manganese	2000 [2]	10000 [7]	2000 [2]	50-5000
Total Mercury	0.73	2.8 [8]	0.73	0.001-0.2
Nickel	130	310	130	0.5-25
Selenium	4 [2]	1500	4 [2]	0.1-3.9
Silver	8.3	1500	8.3	--
Zinc	2480	10000 [7]	2480	9-50
PCBs/Pestacides				
2,3,5-TP Acid (Silvex)	3.8	500 [3]	3.8	--
4,4'-DDE	17	62	17	--
4,4'-DDT	136	47	47	--
4,4'-DDD	14	.92	14	--
Aldrin	0.19	0.68	0.19	--
alpha-BHC	0.02	3.4	0.02	--
beta-BHC	0.09	3	0.09	--
Chlordane (Alpha)	2.9	24	2.9	--
delta-BHC	0.25	500 [3]	0.25	--
Dibenzofuran	210	350	210	--
Dieldrin	0.1	1.4	0.1	--
Endosulfan I	102	200 [4]	102	--
Endosulfan II	102	200 [4]	102	--
Endosulfan sulfate	1000 [3]	200 [4]	200 [4]	--
Endrin	0.06	89	0.06	--
Heptachlor	0.38	15	0.38	--
Lindane	0.1	9.2	0.1	--
Polychlorinated Biphenyls	3.2	1	1	--
				--
Semi-Volatile Organic Compounds				--
Acenaphthene	98	500 [3]	98	--
Acenapthylene	107	500 [3]	107	--
Aniline	--	500	500	--
Anthracene	1000 [3]	500 [3]	500 [3]	--
Benz(a)anthracene	1 [2]	5.6	1 [2]	--
Benzo(a)pyrene	22	1 [2]	1 [2]	--
Benzo(b)fluoranthene	1.7	5.6	1.7	--
Benzo(g,h,i)perylene	1000 [3]	500 [3]	500 [3]	--
Benzo(k)fluoranthene	1.7	56	1.7	--
Chrysene	1 [2]	56	1 [2]	--
Dibenz(a,h)anthracene	1000 [3]	0.56	0.56	--
Fluoranthene	1000 [3]	500 [3]	500 [3]	--
Fluorene	386	500 [3]	386	--
Indeno(1,2,3-cd)pyrene	8.2	5.6	5.6	--
m-Cresol	0.33 [9]	500 [3]	0.33 [9]	--
Naphthalene	12	500 [3]	12	--
Nitrobenzene	--	69	69	--
o-Cresol	0.33 [9]	500 [3]	0.33 [9]	--
p-Cresol	0.33 [9]	500 [3]	0.33 [9]	--
Pentachlorophenol	0.8 [9]	6.7	0.8 [9]	--
Phenanthrene	1000 [3]	500 [3]	500 [3]	--
Phenol	0.33 [9]	500 [3]	0.33 [9]	--
Pyrene	1000 [3]	500 [3]	500 [3]	--

TABLE 1 -
CRITERIA FOR CLEANUP, IMPORT, AND RE-USE OF SOIL
FORMER AMERICAN LINEN SUPPLY CO FACILITY
BUFFALO, NEW YORK
BCP SITE #C915241

	NYSDEC Soil Cleanup Objectives (Restricted Use)			Eastern United States Background Levels
	Protection of Groundwater (ppm)	Commercial Use (ppm)	Imported Fill Requirements (ppm)	
				--
Volatile Organic Compounds				--
1,1,1-Trichloroethane	0.68	500[3]	0.68	--
1,1-Dichloroethane	0.27	240	0.27	--
1,1-Dichloroethene	0.33	500[3]	0.33	--
1,2-Dichlorobenzene	1.1	500[3]	1.1	--
1,2-Dichloroethane	0.02[2]	30	0.02[2]	--
cis-1,2-Dichloroethene	0.25	500[3]	0.25	--
trans-1,2-Dichloroethene	0.19	500[3]	0.19	--
1,3-Dichlorobenzene	2.4	280	2.4	--
1,4-Dichlorobenzene	1.8	130	1.8	--
1,4-Dioxane	0.1[6]	130	0.1[6]	--
Acetone	0.05	500[3]	0.05	--
Benzene	0.06	44	0.06	--
Butylbenzene	12	500[3]	12	--
Carbon tetrachloride	0.76	22	0.76	--
Chlorobenzene	1.1	500[3]	1.1	--
Chloroform	0.37	350	0.37	--
Ethylbenzene	1	390	1	--
Hexachlorobenzene	3.2	6	3.2	--
Methyl ethyl ketone	0.12	500[3]	0.12	--
Methyl tert-butyl ether	0.93	500[3]	0.93	--
Methylene Chloride	0.05	500[3]	0.05	--
n-Propylbenzene	3.9	500[3]	3.9	--
sec-Butylbenzene	11	500[3]	11	--
tert-Butylbenzene	5.9	500[3]	5.9	--
Tetrachloroethane	**1.8**[9]	150	**1.8**[9]	--
Toluene	0.7	500[3]	0.7	--
Trichloroethene	**0.75**[9]	200	**0.75**[9]	--
1,2,4-Trimethylbenzene	3.6	190	3.6	--
1,3,5-Trimethylbenzene	8.4	190	8.4	--
Vinyl Chloride	0.02	13	0.02	--
Xylene (mixed)	1.6	500[3]	1.6	--

NOTES & ABBREVIATIONS:

-- = No Standard or Value

**The soil cleanup objectives herein are from the 6 NYCRR Part 375-6.8(b) dated 14 December 2006. In the event tha revisions to the SCOs are published that post-date this SMP, the most recent iteration of the SCOs will be usec

1. The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the tot: species of thie contaminant is below the SCC
2. For consituants where the calculated SCO was lower than the rural soil background concentration determined by th Department and Department of Health rural soil survey, the rural soil background concentration is used as th Track 2 SCO value for this use of the site
3. The SCOs were capped at a maximum value of 500 ppm
4. This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate
5. The SCOs for the protection of groundwater were capped at a maximum value of 1000 ppm
6. For constituents were the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.
7. The SCOs for metals were capped at a maximum value of 10,000 ppm
8. This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts)
9. The protection of groundwater and imported fill requirements for tetrachloroethene and trichloroethene are site specific per th 2014 Remedial Action Work Plan.

APPLICABILITY:

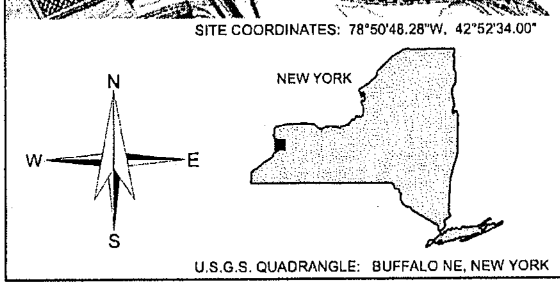
This table presents the NYSDEC approved applicable Soil Cleanup Objective
The cleanup objectives should be used as follows

Refer to the Excavation Plan (Appendix B) for additional information.

FIGURES

Figures 1 through 9 and 11 through 13 included in this section

Figure 10 is located within the text of the SMP



HALEY & ALDRICH

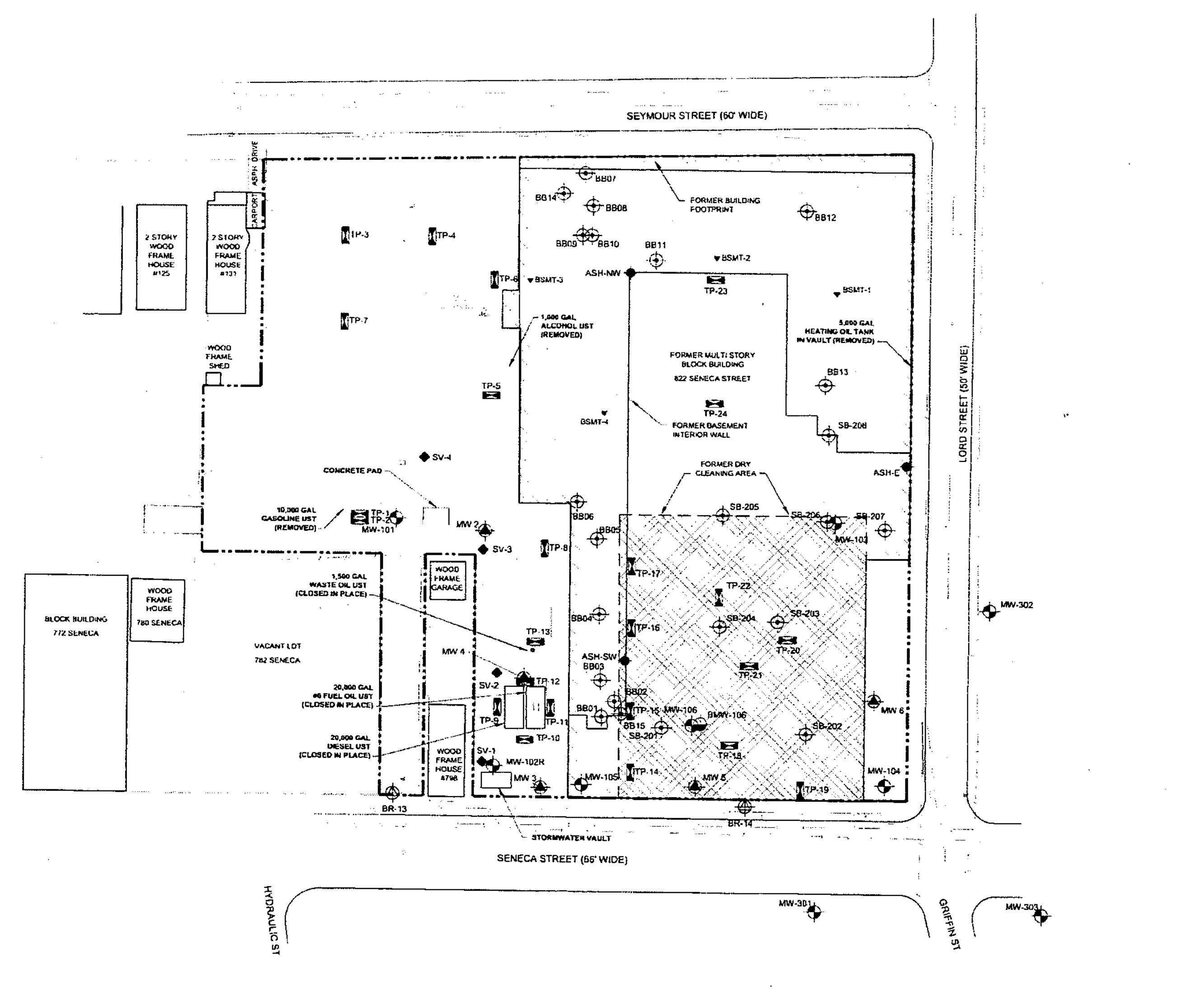
FORMER AMERICAN LINEN SUPPLY COMPANY
822 SENECA STREET
BUFFALO, NEW YORK

PROJECT LOCUS

SCALE: 1:24000
FEBRUARY 2014

FIGURE 1

G:\37319\053\CAD\37319-053-001.DWG



LEGEND

- PROPERTY LINE
- BMW-106 — SURVEYED LOCATION OF BEDROCK MONITORING WELL INSTALLED IN 2012
- MW-102 — SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2012
- MW-301 — SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2013
- SV-2 — SURVEYED LOCATION OF SOIL VAPOR SAMPLING POINT INSTALLED IN 2012
- TP-24 — APPROXIMATE LOCATION OF TEST PIT INSTALLED IN 2011 AND 2012
- MW-2 — SURVEYED LOCATION OF MONITOR WELLS INSTALLED BY ENSR IN DECEMBER 2005
- BR-14 — SURVEYED LOCATION OF MONITOR WELLS INSTALLED BY OTHERS FOR ADJACENT PROPERTY.
- SB-207 — APPROXIMATE LOCATION OF SOIL BORING INSTALLED IN 2012
- BB10 — APPROXIMATE LOCATION OF BASEMENT SOIL BORING INSTALLED IN 2012
- BSMT-2 — APPROXIMATE LOCATION OF BASEMENT GRAB SAMPLE COLLECTED IN 2012
- ASH-E — APPROXIMATE LOCATION OF PRE-CHARATERIZATION GRAB SAMPLE OF ASH LAYER COLLECTED IN 2012
- CATCH BASIN
- OVERHEAD POWER
- SANITARY SEWER
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC

NOTES

1. ONSITE TANK LOCATIONS, SOIL BORING LOCATIONS, AND BASEMENT DIMENSIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE.
2. BASEMAP (INCLUDING BEDROCK MONITORING WELL, MONITORING WELL, SOIL VAPOR SAMPLING POINTS, SOIL BORINGS, TEST PITS, CONFIRMATION SAMPLES, AND OTHER REMEDIAL INVESTIGATION AND IRM FEATURES) IS BASED ON ELECTRONIC CAD FILES FROM HOFFMAN LAND SURVEYING & GEOMATICS OF ONTARIO, NEW YORK, OF WHICH THE MOST RECENT VERSION IS DATED 22 JANUARY 2014.
3. SITE BOUNARY AND PROPERTY BOUNDARY ARE THE SAME.

0 30 60 90 120
SCALE IN FEET

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PRE-REMEDY SITE INVESTIGATION LOCATION PLAN

SCALE: AS SHOWN
OCTOBER 2014

FIGURE 2

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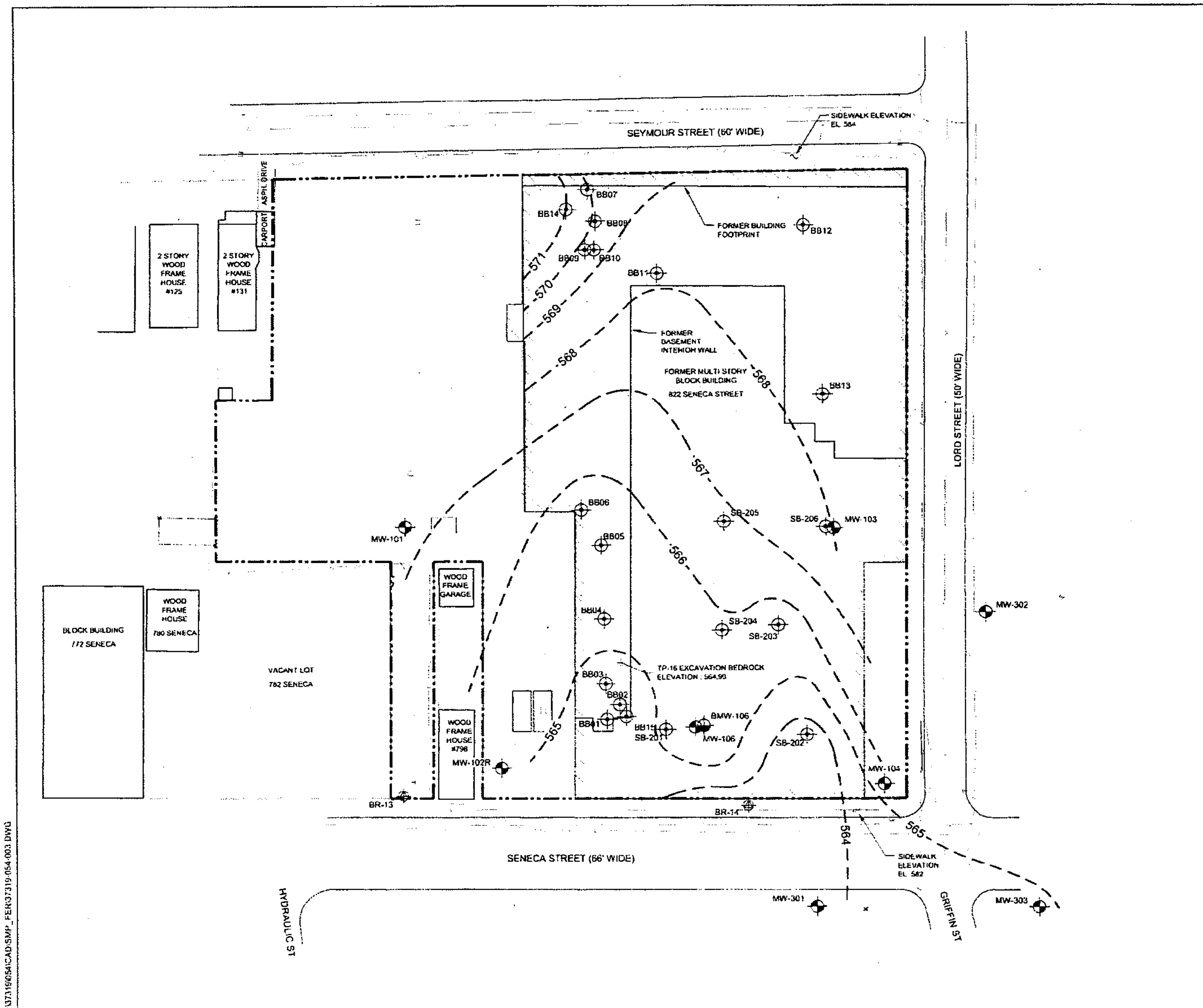
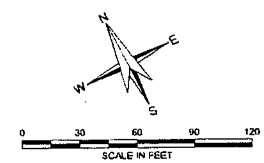


LEGEND

- PROPERTY LINE
- BMW-106 SURVEYED LOCATION OF BEDROCK MONITORING WELL INSTALLED IN 2012
- MW-102 SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2012
- MW-301 SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2013
- MW-2 SURVEYED LOCATION OF MONITOR WELLS INSTALLED BY ENSR IN DECEMBER 2005
- SB-203 APPROXIMATE LOCATION OF SOIL BORING INSTALLED IN 2012
- BB10 APPROXIMATE LOCATION OF INSTALLED BASEMENT SOIL BORING INSTALLED IN 2012
- BR-14 SURVEYED LOCATION OF MONITOR WELLS INSTALLED BY OTHERS FOR ADJACENT PROPERTY.
- CATCH BASIN
- OVERHEAD POWER
- SANITARY SEWER
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- 565 TOP OF ROCK / REFUSAL CONTOUR

NOTES

1. ONSITE TANK LOCATIONS, SOIL BORING LOCATIONS, AND BASEMENT DIMENSIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE.
2. BASEMAP IS BASED ON ELECTRONIC CAD FILES FROM HOFFMAN LAND SURVEYING & GEOMATICS OF ONTARIO, NEW YORK, OF WHICH THE MOST RECENT VERSION IS DATED 22 JANUARY 2014.
3. SIDEWALK ELEVATIONS ARE APPROXIMATE.
4. MW-302 WAS NOT INCLUDED IN THE CONTOUR DUE TO INSUFFICIENT INFORMATION.
5. CONTOUR ELEVATIONS ARE EXPRESSED IN FT MSL.
6. SITE BOUNDARY AND PROJECT BOUNDARY ARE THE SAME.



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822 SENECA STREET
BUFFALO, NEW YORK

TOP OF ROCK / REFUSAL CONTOURS

SCALE: AS SHOWN
OCTOBER 2014

FIGURE 3

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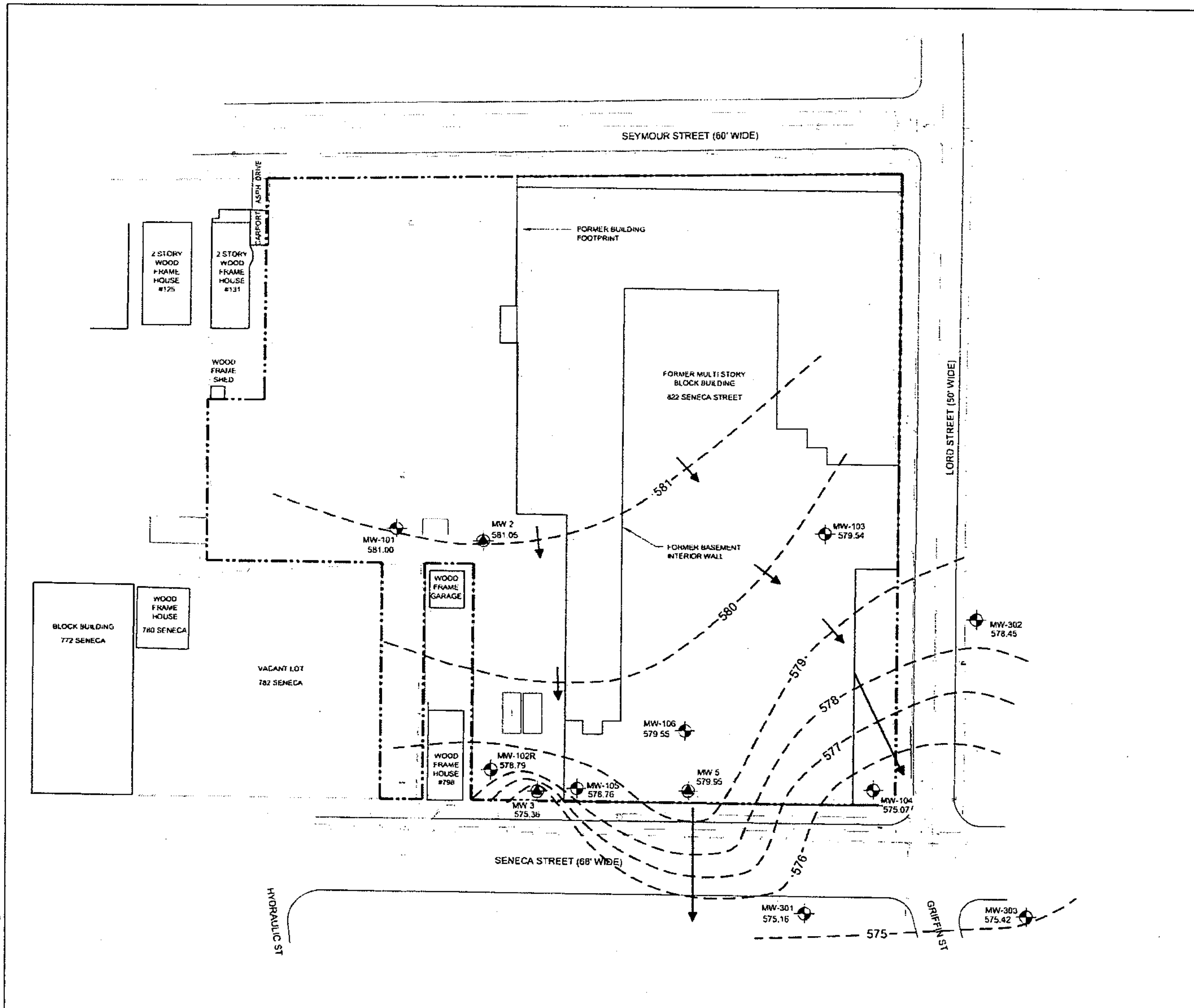

LEGEND

—··—··—	PROPERTY LINE
BMW-106	SURVEYED LOCATION OF BEDROCK MONITORING WELL INSTALLED IN 2012
MW-102	SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2012
MW-301	SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2013
MW-2	SURVEYED LOCATION OF MONITOR WELLS INSTALLED BY ENSR IN DECEMBER 2005.
579.16	ELEVATION OF WATER TABLE WITHIN MONITORING WELL
580 — — —	GROUNDWATER CONTOUR LINE
———▶	GROUNDWATER FLOW DIRECTION
	CATCH BASIN
	OVERHEAD POWER
	SANITARY SEWER
	UNDERGROUND TELEPHONE
	UNDERGROUND ELECTRIC

NOTES

1. ONSITE TANK LOCATIONS, AND BASEMENT DIMENSIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE.
2. BASEMAP IS BASED ON ELECTRONIC CAD FILES FROM HOFFMAN LAND SURVEYING & GEOMATICS OF ONTARIO, NEW YORK, OF WHICH THE MOST RECENT VERSION IS DATED 1JANUARY 2014.
3. MW-102 REPLACED IN DECEMBER 2013 AND IS UPDATED WITH JANUARY 2014 DATA.
4. CONTOUR ELEVATIONS ARE EXPRESSED IN FT MSL.
5. SITE BOUNDARY AND PROPERTY BOUNDARY ARE THE SAME

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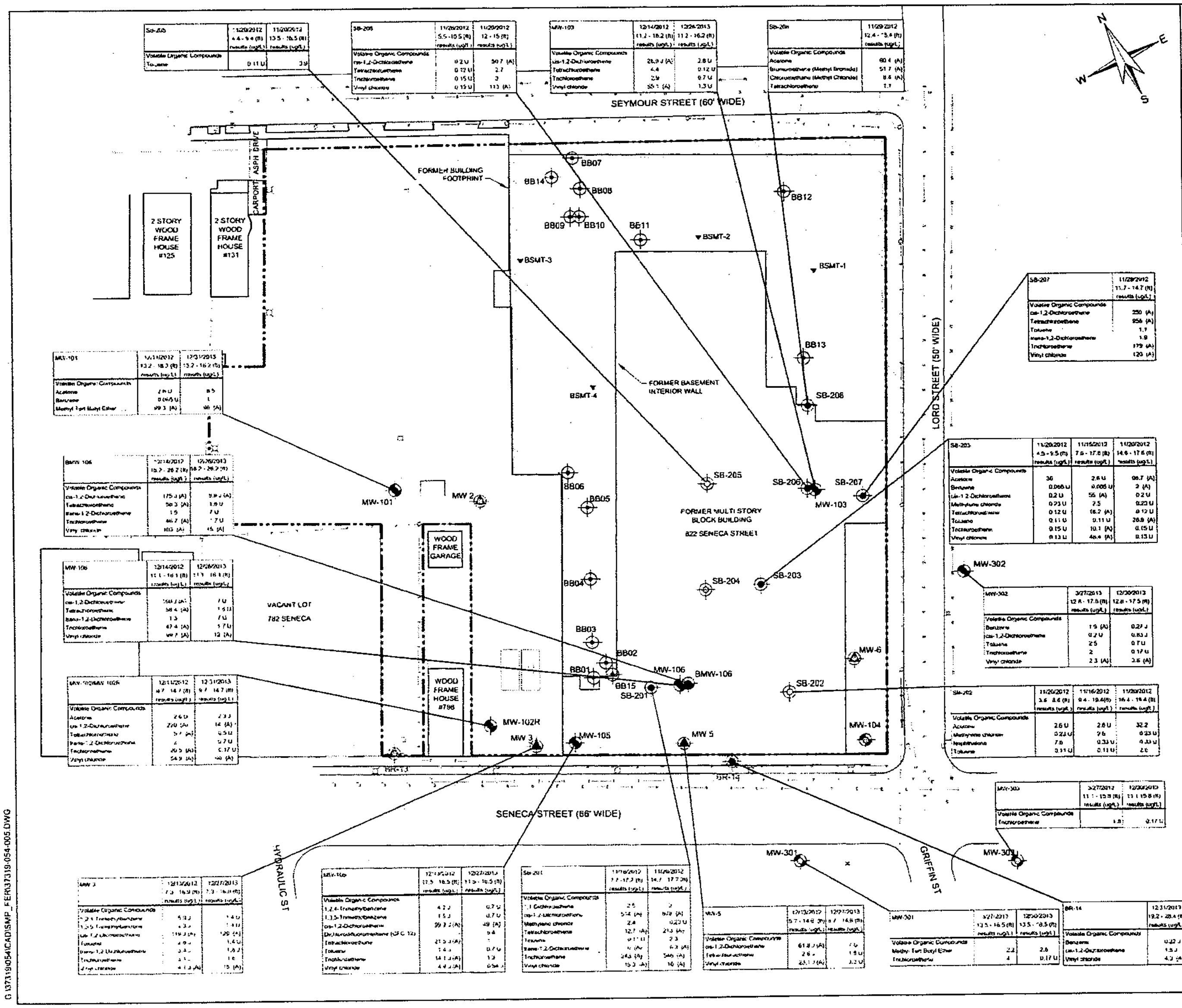
GROUNDWATER CONTOUR

SCALE: AS SHOWN
OCTOBER 2014

FIGURE 4

G:\37319\054\CAD\SMP_FER\37319-054-004.DWG



LEGEND

- PROPERTY LINE
- BMW-106 — SURVEYED LOCATION OF BEDROCK MONITORING WELL INSTALLED IN 2012
- MW-102 — SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2012
- MW-301 — SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2013
- MW-1 — SURVEYED LOCATION OF MONITOR WELLS INSTALLED BY ENSR IN DECEMBER 2005.
- SB-203 — SURVEYED LOCATION OF SOIL BORINGS INSTALLED IN 2012
- RED DOT INDICATES ONE OR MORE COMPOUNDS HAVE EXCEEDED CRITERIA
- YELLOW DOT INDICATES THAT COMPOUNDS DID NOT EXCEED CRITERIA
- GREEN DOT INDICATES THAT COMPOUNDS WERE NOT DETECTED

NOTES

1. ONSITE TANK LOCATIONS, SOIL BORING LOCATIONS AND BASEMENT DIMENSIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE.
2. BASEMAP IS BASED ON ELECTRONIC CAD FILES FROM HOFFMAN LAND SURVEYING & GEOMATICS OF ONTARIO, NEW YORK, OF WHICH THE MOST RECENT VERSION IS DATED 1 OCTOBER 2014.
3. SITE BOUNDARY AND PROJECT BOUNDARY ARE THE SAME.
4. ONLY VOLATILE ORGANIC COMPOUNDS WHICH WERE DETECTED ARE SHOWN IN DATABOXES.
5. DEPTHS SHOWN ARE BASED ON POST-REMEDIAL ACTION GROUND SURFACE MEASUREMENTS.
6. RESULTS SHOWN WITH AN IDENTIFIER (A) EXCEED THE FOLLOWING CRITERIA:

VOLATILE ORGANIC COMPOUND	NYSDEC TOGS 1.1.1 Class GA (ug/L)
1,1-Dichloroethene	5
Acetone	50
Benzene	1
Bromomethane (Methyl Bromide)	5
Chloromethane (Methyl Chloride)	5
cis-1,2-Dichloroethene	5
Methyl Tert Butyl Ether	10
Methylene chloride	5
Naphthalene	10
Tetrachloroethene	5
Toluene	5
trans-1,2-Dichloroethene	5
Trichloroethene	5
Vinyl chloride	2

0 30 60 90 120
SCALE IN FEET

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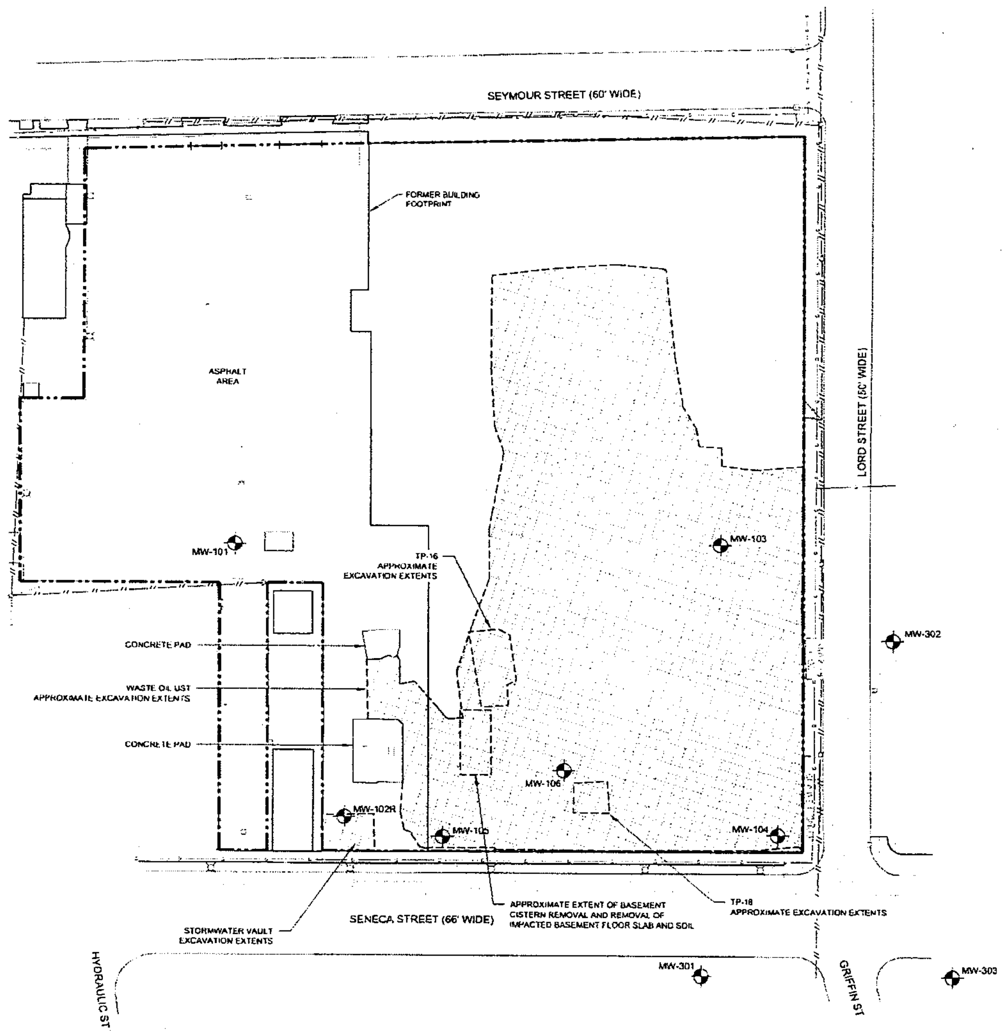
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

SCALE: AS SHOWN
OCOTBER 2014

FIGURE 5

G:\37319\054\CAD\SMP_FER37319-054-005.DWG



LEGEND

- PROPERTY LINE
- OVERHEAD POWER
- SANITARY SEWER
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- CATCH BASIN
- APPROXIMATE EXTENTS OF IRM/REMEDIAL EXCAVATION AREA AND DISTURBANCE
- MW-102 SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2012
- MW-301 SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2013

NOTES

1. BASEMAP IS BASED ON ELECTRONIC CAD FILES FROM HOFFMAN LAND SURVEYING & GEOMATICS OF ONTARIO, NEW YORK, OF WHICH THE MOST RECENT VERSION IS DATED 1 OCTOBER 2014.
2. SITE BOUNDARY AND PROPERTY BOUNDARY ARE THE SAME.

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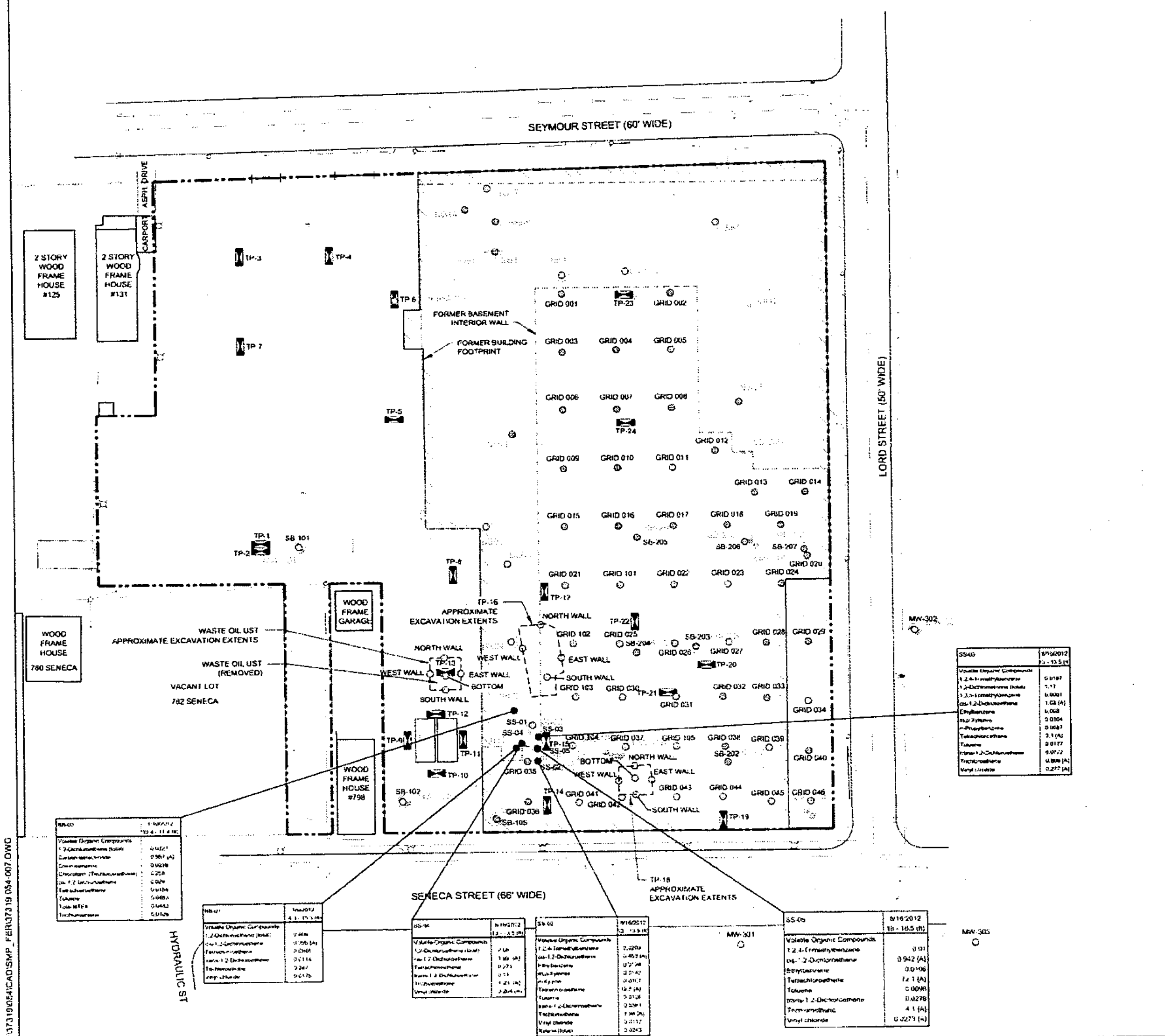
BUFFALO, NEW YORK

POST-REMEDIAL EXCAVATION EXTENTS

SCALE: AS SHOWN
OCTOBER 2014

FIGURE 6

G:\37319\064\CAD\SMP_FEN37319-064-006.DWG



LEGEND

- PROPERTY LINE
- OVERHEAD POWER
- SANITARY SEWER
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- CATCH BASIN
- TP-24 — APPROXIMATE LOCATION OF INSTALLED TEST PIT
- SB-207 — APPROXIMATE LOCATION OF SOIL BORING INSTALLED IN 2012
- BB10 — APPROXIMATE LOCATION OF BASEMENT SOIL BORING INSTALLED IN 2012
- BSMT-2 — APPROXIMATE LOCATION OF BASEMENT GRAB SAMPLE COLLECTED IN 2012
- GRID 001 — APPROXIMATE LOCATION OF GRID SAMPLES
- RED DOT INDICATES APPROXIMATE LOCATION OF SAMPLE COLLECTED DURING THE RI/RM WHERE ONE OR MORE TARGET CVOC COMPOUNDS WERE DETECTED ABOVE CRITERIA AS SHOWN.
- YELLOW DOT INDICATES APPROXIMATE LOCATION OF SAMPLE COLLECTED DURING THE RI/RM WHERE TARGET CVOC COMPOUNDS WERE NOT DETECTED ABOVE CRITERIA.
- GREEN DOT INDICATES APPROXIMATE LOCATION OF SAMPLE COLLECTED DURING THE RI/RM WHERE TARGET CVOC COMPOUNDS WERE NOT DETECTED.

NOTES

1. ONSITE TANK LOCATIONS, SOIL BORING LOCATIONS, SAMPLE LOCATIONS, AND BASEMENT DIMENSIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE.
2. BASEMAP IS BASED ON ELECTRONIC CAD FILES FROM HOFFMAN LAND SURVEYING & GEOMATICS OF ONTARIO, NEW YORK, OF WHICH THE MOST RECENT VERSION IS DATED 1 OCTOBER 2014.
3. SITE BOUNDARY AND PROPERTY BOUNDARY ARE THE SAME.
4. ALL DEPTHS SHOWN ARE APPROXIMATE AND ARE BASED ON POST-REMEDIAL ACTION GROUND SURFACE ELEVATIONS.
5. ONLY RESULTS THAT EXCEED CRITERIA ARE SHOWN ON FIGURE.
6. RESULTS SHOWN WITH AN IDENTIFIER (A) EXCEED THE FOLLOWING NYSDEC SOIL CLEANUP OBJECTIVES (SCOs). (A) - SITE SPECIFIC GROUNDWATER PROTECTION FOR COMPOUNDS SHOWN IN TABLE BELOW. ALL OTHER COMPOUNDS WERE COMPARED TO THE NYSDEC PROTECTION OF GROUNDWATER SCOs.

VOLATILE ORGANIC COMPOUND	SITE SPECIFIC PROTECTION OF GROUNDWATER SCOs (MG/KG)
TETRACHLOROETHENE	1.8
TRICHLOROETHENE	0.75
CIS-1,2-DICHLOROETHENE	0.25
VINYL CHLORIDE	0.02

SCALE IN FEET: 0 30 60 90 120

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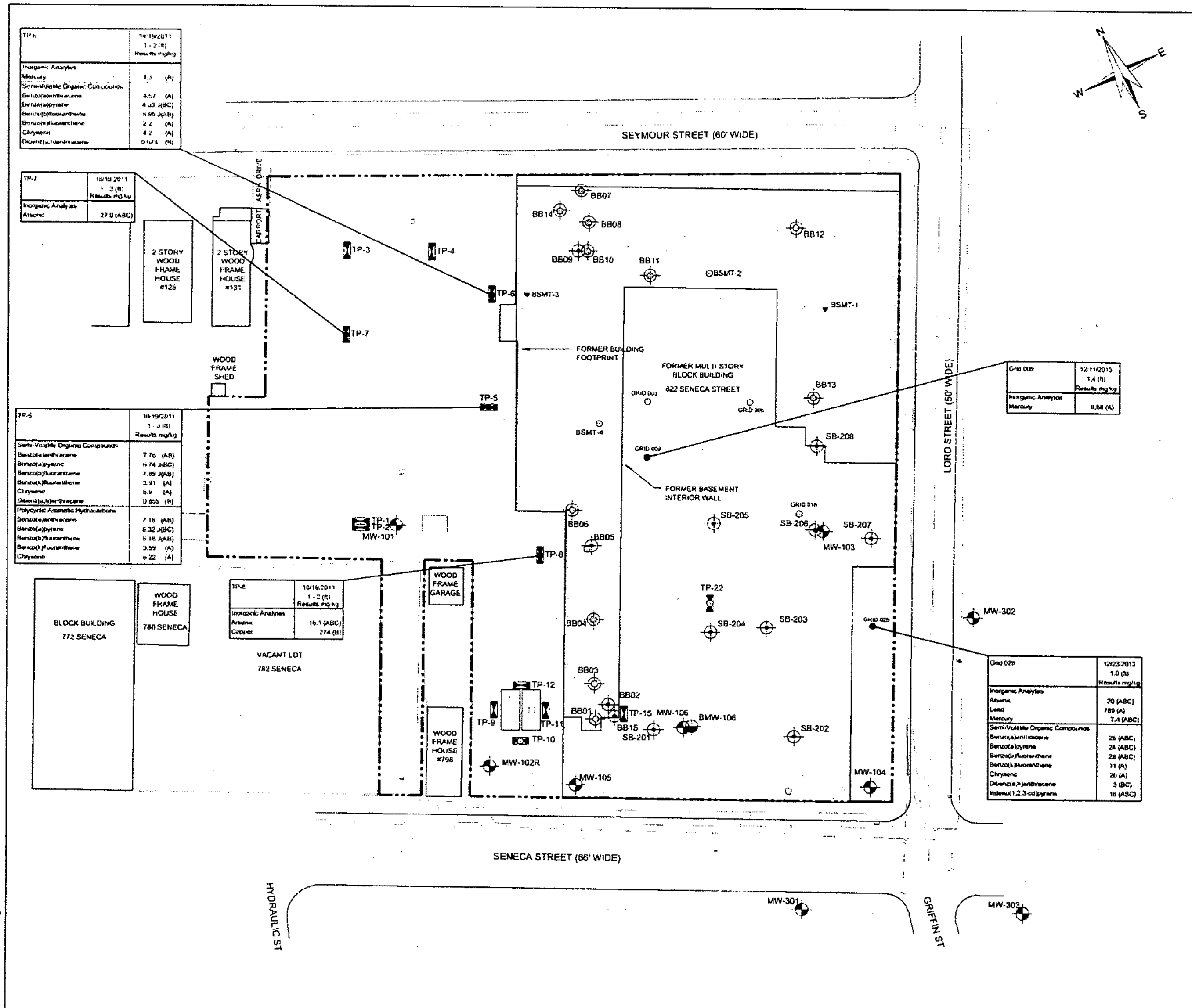
BUFFALO, NEW YORK

AUGUST 2014 SOIL CONDITIONS - VOLATILE ORGANIC COMPUNDS

SCALE: AS SHOWN
OCTOBER 2014

FIGURE 7

G:\37319\054\CAD\SMP_FER37319 054-007.DWG



TP-6	10/19/2011 1 - 2 (ft) Results mg/kg
Inorganic Analytes	
Mercury	1.3 (A)
Semi-Volatile Organic Compounds	
Benzo(a)anthracene	4.57 (A)
Benzo(a)pyrene	4.43 J(BC)
Benzo(b)fluoranthene	5.95 J(AB)
Benzo(k)fluoranthene	2.2 (A)
Chrysene	4.2 (A)
Dibenz(a,h)anthracene	0.673 (B)

TP-7	10/19/2011 1 - 3 (ft) Results mg/kg
Inorganic Analytes	
Arsenic	27.9 (ABC)

TP-5	10/19/2011 1 - 3 (ft) Results mg/kg
Semi-Volatile Organic Compounds	
Benzo(a)anthracene	7.76 (AB)
Benzo(a)pyrene	6.74 J(BC)
Benzo(b)fluoranthene	7.89 J(AB)
Benzo(k)fluoranthene	3.91 (A)
Chrysene	6.9 (A)
Dibenz(a,h)anthracene	0.865 (B)
Polycyclic Aromatic Hydrocarbons	
Benzo(a)anthracene	7.16 (AB)
Benzo(a)pyrene	6.32 J(BC)
Benzo(b)fluoranthene	6.16 J(AB)
Benzo(k)fluoranthene	3.59 (A)
Chrysene	6.22 (A)

TP-8	10/18/2011 1 - 2 (ft) Results mg/kg
Inorganic Analytes	
Arsenic	16.1 (ABC)
Copper	274 (B)

Grid 009	12/11/2013 1.4 (ft) Results mg/kg
Inorganic Analytes	
Mercury	0.88 (A)

Grid 029	12/23/2013 1.0 (ft) Results mg/kg
Inorganic Analytes	
Arsenic	70 (ABC)
Lead	780 (A)
Mercury	7.4 (ABC)
Semi-Volatile Organic Compounds	
Benzo(a)anthracene	26 (ABC)
Benzo(a)pyrene	24 (ABC)
Benzo(b)fluoranthene	28 (ABC)
Benzo(k)fluoranthene	11 (A)
Chrysene	26 (A)
Dibenz(a,h)anthracene	3 (BC)
Indeno(1,2,3-cd)pyrene	15 (ABC)

LEGEND

- PROPERTY LINE
- BMW-106 — SURVEYED LOCATION OF BEDROCK MONITORING WELL INSTALLED IN 2012
- MW-102 — SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2012
- MW-301 — SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2013
- BB10 — APPROXIMATE LOCATION OF BASEMENT SOIL BORING INSTALLED IN 2012
- BSMT-2 — APPROXIMATE LOCATION OF BASEMENT EXCAVATION GRAB SAMPLE COLLECTED IN 2012
- TP-24 — APPROXIMATE LOCATION OF INSTALLED TEST PIT - INSTALLED IN 2011 AND 2012
- TP-23 — APPROXIMATE LOCATION OF INSTALLED TEST PIT WHERE FILL CHARACTERIZATION SAMPLE WAS COLLECTED AND ANALYZED IN 2011 AND 2012
- MW-2 — SURVEYED LOCATION OF MONITOR WELLS INSTALLED BY ENSR IN DECEMBER 2005
- GRID 008 — GRID SAMPLE LOCATIONS (SHOWN ONLY WHERE COMPOUNDS ANALYZED) COLLECTED IN 2013
- RED DOT INDICATES ONE OR MORE ANALYTES HAVE EXCEEDED CRITERIA
- YELLOW DOT INDICATES THAT ANALYTES DID NOT EXCEED CRITERIA
- GREEN DOT INDICATES THAT ANALYTES WERE NOT DETECTED
- CATCH BASIN
- OVERHEAD POWER
- SANITARY SEWER
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC

NOTES

1. ONSITE TANK LOCATIONS, SOIL BORING LOCATIONS, AND BASEMENT DIMENSIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE.
2. BASEMAP IS BASED ON ELECTRONIC CAD FILES FROM HOFFMAN LAND SURVEYING & GEOMATICS OF ONTARIO, NEW YORK, OF WHICH THE MOST RECENT VERSION IS DATED 1 OCTOBER 2014.
4. SITE BOUNDARY AND PROPERTY BOUNDARY ARE THE SAME
5. UNITS SHOWN IN mg/kg.
6. RESULTS SHOWN WITH AN IDENTIFIER (A, B, C) EXCEED THE FOLLOWING NYSDEC SOIL CLEANUP OBJECTIVES:
   (A) - GROUNDWATER PROTECTION
   (B) - COMMERCIAL
   (C) - INDUSTRIAL
7. ALL DEPTHS SHOWN ARE APPROXIMATE AND ARE BASED ON POST-REMEDIAL ACTION GROUND SURFACE ELEVATIONS.

0 30 60 90 120
SCALE IN FEET

HALEY & ALDRICH

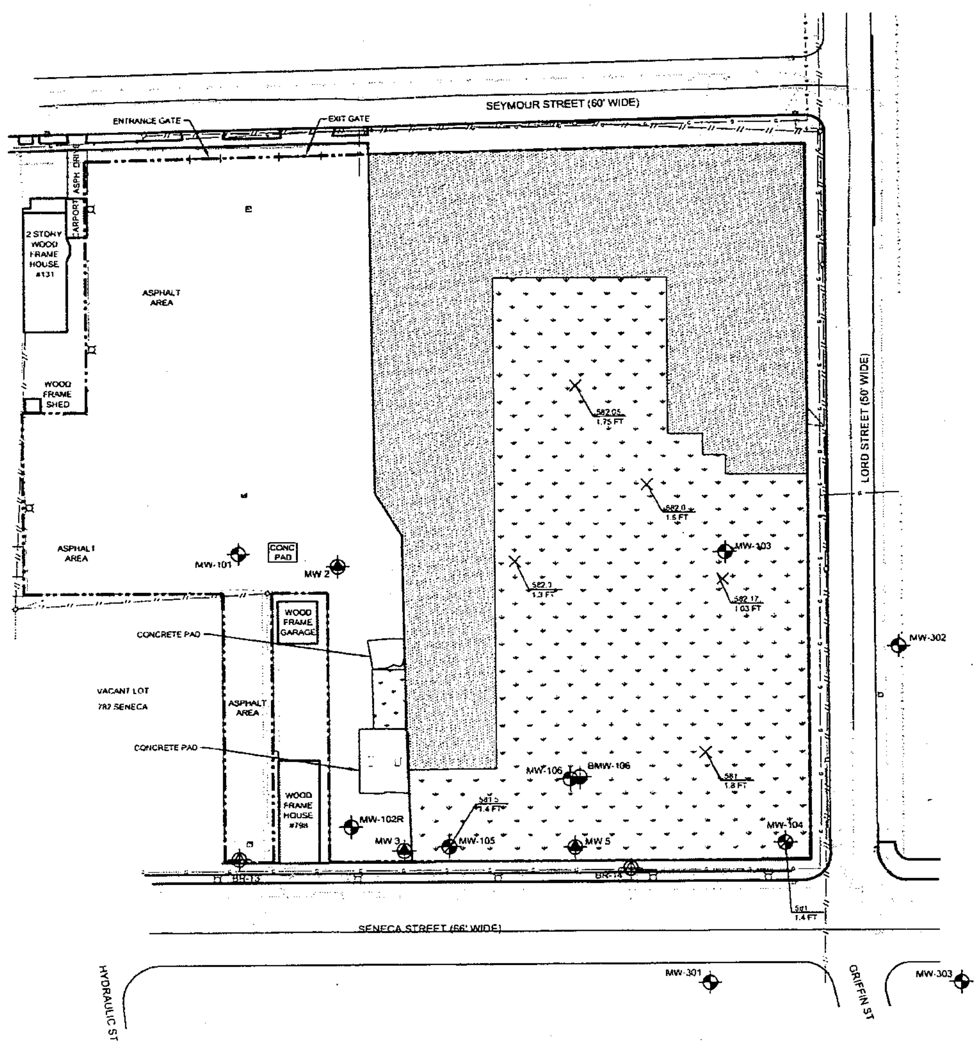
FORMER AMERICAN LINEN SUPPLY COMPANY FACILITY
822 SENECA STREET
BUFFALO, NEW YORK

AUGUST 2014 SOIL CONDITIONS - SEMI-VOLATILE AND INORGANIC ANALYTES

SCALE: AS SHOWN
OCTOBER 2014

FIGURE 8

G:\37310\054\CAD\SMP_FER37319-054-008.DWG

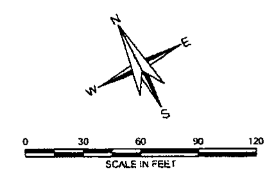


LEGEND

- PROPERTY AND FENCE LINE
- FORMER BUILDING FOOTPRINT
- FORMER BUILDING BASEMENT AREA (FROM WHICH THE BASEMENT WAS REMOVED AND BACKFILLED WITH APPROXIMATELY 7-10 FT OF NYSDEC-APPROVED COVER. AREA WAS SEEDED
- FORMER BUILDING SLAB AREA (DEMARCATION LAYER WITH A MINIMUM 1-2 FEET OF CLEAN COVER)
- PAVEMENT AREA (ASPHALT OR CONCRETE)
- CATCH BASIN
- SANITARY SEWER LINE
- WATER LINE
- UNDERGROUND TELEPHONE LINE
- OVERHEAD TELEPHONE LINE
- ELECTRICAL LINE
- SURVEYED LOCATION OF BEDROCK MONITORING WELL INSTALLED IN 2012
- MW-103 SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2012 AND 2013
- MW-303 SURVEYED LOCATION OF OFF-SITE MONITORING WELL INSTALLED IN 2013
- SURVEYED LOCATION OF MONITOR WELLS INSTALLED BY ENSR IN DECEMBER 2005
- SURVEYED LOCATION OF MONITOR WELLS INSTALLED BY OTHERS FOR ADJACENT PROPERTY.
- APPROXIMATE LOCATION OF DEMARCATION LAYER DEPTH MEASUREMENTS ELEVATION
- 582.1 ELEVATION
- 1.8 FT DEPTH BELOW GROUND SURFACE

NOTES

1. FORMER BASEMENT DIMENSIONS ARE APPROXIMATE
2. BASEMAP IS BASED ON ELECTRONIC CAD FILES FROM HOFFMAN LAND SURVEYING & GEOMATICS OF ONTARIO, NEW YORK, OF WHICH THE MOST RECENT VERSION IS DATED 1 OCTOBER 2014
3. SITE BOUNDARY AND PROPERTY BOUNDARY ARE THE SAME.



HALEY & ALDRICH

FORMER AMERICAN LINEN SUPPLY COMPANY FACILITY
822 SENECA STREET
BUFFALO, NEW YORK

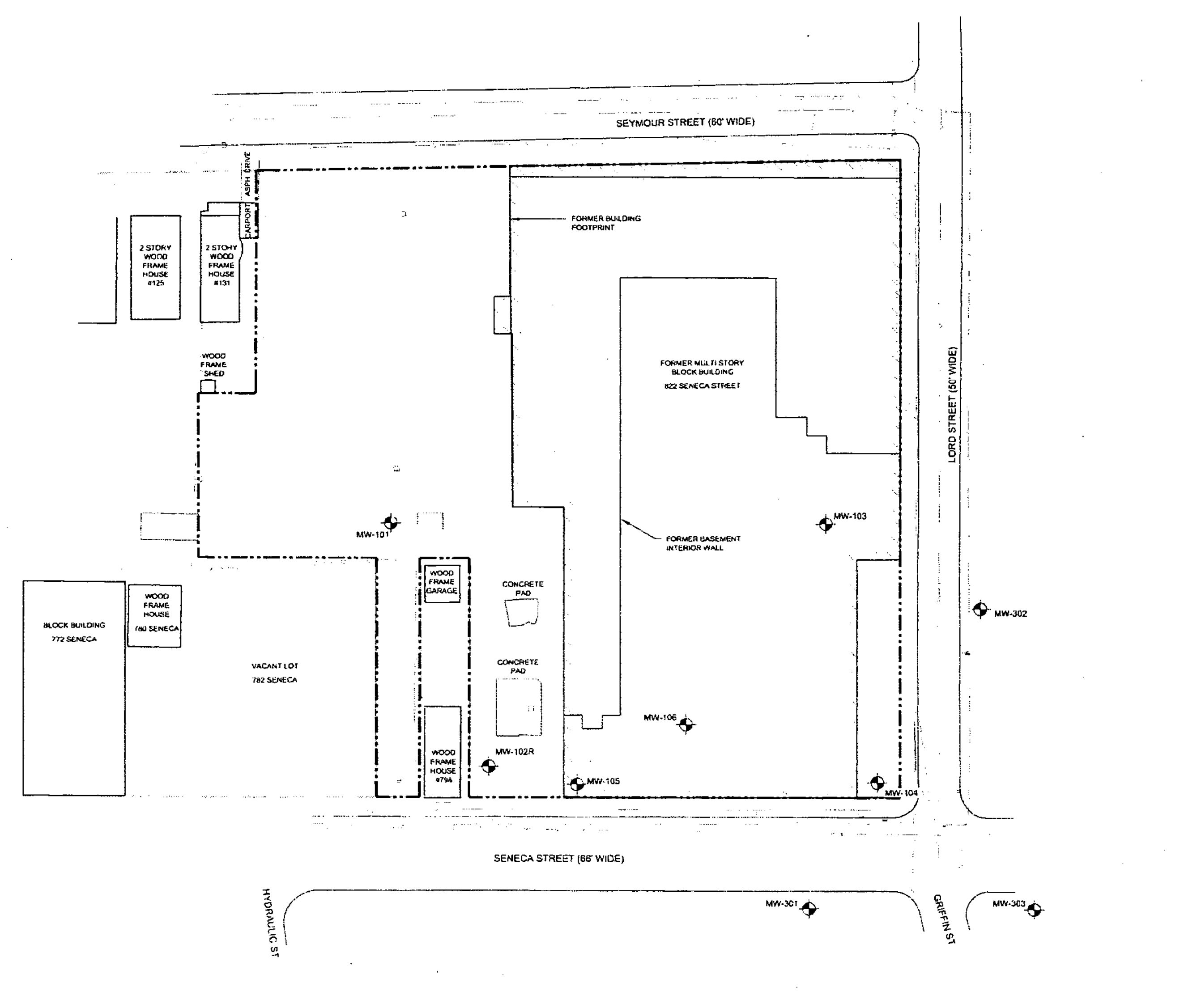
LOCATION OF COVER SYSTEM TYPES

SCALE: AS SHOWN
OCTOBER 2014

FIGURE 9

G:\37319\054\CAD\SMP_FER\37319-054-009.DWG

Figure 10 – Map of Route from Site to Hospital is located within the text of the SMP.



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LEGEND

- PROPERTY LINE
- MW-102 SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2012
- MW-301 SURVEYED LOCATION OF MONITORING WELL INSTALLED IN 2013
- CATCH BASIN
- OVERHEAD POWER
- SANITARY SEWER
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC

NOTES

1. BASEMENT DIMENSIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE.
2. BASEMAP IS BASED ON ELECTRONIC CAD FILES FROM HOFFMAN LAND SURVEYING & GEOMATICS OF ONTARIO, NEW YORK, OF WHICH THE MOST RECENT VERSION IS DATED 1 OCTOBER 2014.
3. MW-102 REPLACED IN DECEMBER 2013.
4. SITE BOUNDARY AND PROPERTY BOUNDARY ARE THE SAME.

N E S W

0 30 60 90 120

SCALE IN FEET

HALEY & ALDRICH

FORMER AMERICAN LINEN SUPPLY COMPANY
822 SENECA STREET
BUFFALO, NEW YORK

GROUNDWATER MONITORING WELL NETWORK

SCALE: AS SHOWN
OCTOBER 2014

FIGURE 11

FIGURE 12 TO SITE MANAGEMENT PLAN
AMERIPRIDE SITE BCP # C915241

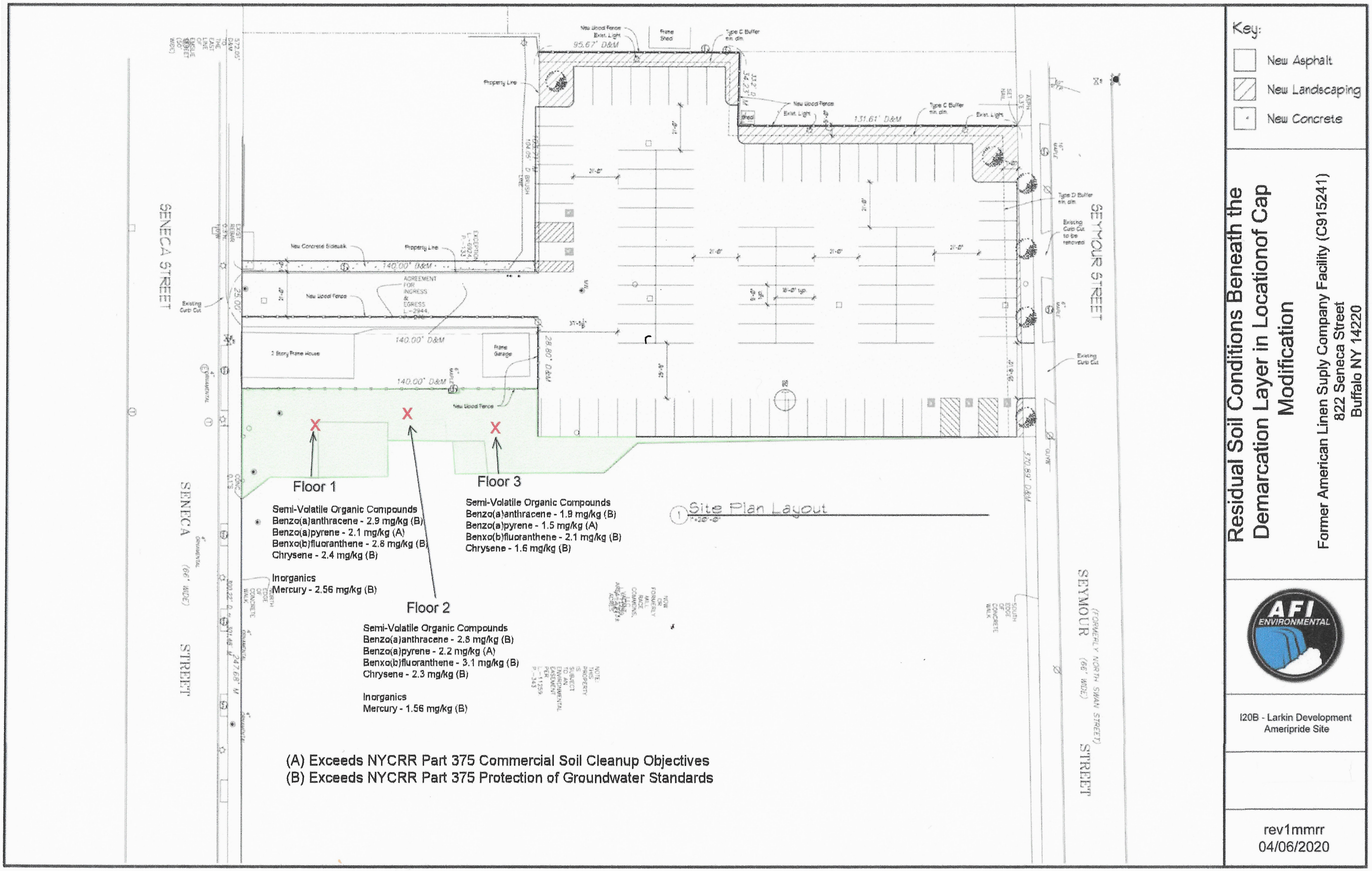
Site Map and Revised Cover System
Former American Linen Supply Compnay Facility (C915241)
822 Seneca Street
Buffalo Ny 14220

Key:
New Asphalt
New Landscaping
New Concrete

I20B - Larkin Development
Ameripride Site

rev1mmr
04/06/2020

FIGURE 13 TO SITE MANAGEMENT PLAN -AMERIPRIDE SITE BCP # C915241



APPENDIX A –

ENVIRONMENTAL EASEMENT & METES AND BOUNDS

ERIE COUNTY CLERK'S OFFICE

County Clerk's Recording Page

Return to:
NIXON PEABODY, LLP
50 JERICHO QUADRANGLE STE 300
JERICHO, NY 11753

Party 1:
MILL RACE COMMONS LLC

Party 2:

Book Type: D Book: 11270 Page: 355
Page Count: 10
Doc Type: EASEMENT/RTWY
Rec Date: 10/01/2014
Rec Time: 03:51:23 PM
Control #: 2014199447
UserID: Donna
Trans #: 14157288
Document Sequence Number
TT20144488

Recording Fees:

RECORDING	$70.00
COE CO $1 RET	$1.00
COE STATE $14.25 GEN	$14.25
COE STATE $4.75 RM	$4.75
MARKOFF FEE	$0.50

Consideration Amount: 0.00

BASIC MT	$0.00
SONYMA MT	$0.00
ADDL MT/NFTA	$0.00
SP MT/M-RAIL	$0.00
NY STATE TT	$0.00
ROAD FUND TT	$0.00

Total: $90.50

STATE OF NEW YORK
ERIE COUNTY CLERK'S OFFICE

WARNING – THIS SHEET CONSTITUTES THE CLERK'S ENDORSEMENT REQUIRED BY SECTION 319&316-a (5) OF THE REAL PROPERTY LAW OF THE STATE OF NEW YORK. DO NOT DETACH. THIS IS NOT A BILL.

Christopher L. Jacobs
County Clerk

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 22nd day of September, 2014, between Owner(s) Mill Race Commons, LLC, a New York limited liability company, having an office at 726 Exchange Street, Suite 825, in the City of Buffalo, 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 822 Seneca Street in the City of Buffalo, 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 122 Block 27 Lot 1-4, being the same as that property conveyed to Grantor by deed dated January 13, 2014 and recorded in the Erie County Clerk's Office in Liber and Page , Deed Book 11257, Page 343. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 2.917 +/- acres, and is hereinafter more fully described in the Land Title Survey dated December 8, 2010 and revised on June 2, 2014 prepared by Hoffman Land Surveying & Geomatics, 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

199447 785-9 CTY

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: C915241-03-11, 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. Purposes. 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. Institutional and Engineering Controls. 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 b 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. Right to Enter and Inspect. 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. Reserved Grantor's Rights. 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. Notice. 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: C915241
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. Amendment. 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. Extinguishment. 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. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

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

Mill Race Commons, LLC:

By: ______________________

Print Name: Joseph A. Petrella

Title: Vice President ~~Sole Member~~ Date: May 29, 2014

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Erie)

On the 29th day of May, in the year 20 14, before me, the undersigned, personally appeared [illegible] 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/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

[signature]
Notary Public - State of New York

Tara Marie Quinn
Notary Public- State of New York
No. 01QU6291174
Qualified in Erie County
My Comm. Expires 10/15/2017

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 22nd day of September, in the year 2014, before me, the undersigned, personally appeared Robert 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, 2018

SCHEDULE "A" PROPERTY DESCRIPTION

All that tract or parcel of land situate in the city of Buffalo, County of Erie, State of New York, being part of Lot 17, Township 11, Range 8 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at the intersection of west line of Lord Street and the south line of Seymour Street (AKA South Canal Street); thence,

westerly, along the said south line of Seymour street 371.9 feet more or less to a point on said southerly line, said point being on the line between the lands now or formerly of Alba C. Gomez on the west and the lands now or formerly American Linen Supply Company on the east; thence,

southerly on said line and at right angles to Seneca street (AKA Seneca Village Road), 130.9 feet more or less to a point, said point being a corner of said lands; thence,

northerly and parallel to said Seneca Street continuing on the line between said lands 33.2 feet more or less to a point, said point being on the easterly line of the lands now or formerly of Ibrahim Hernandez; thence,

southerly 95.7 feet more or less along the line between the lands of said Hernandez and the lands of said American Linen Supply Company to a point, said point being on the northerly line of the lands now or formerly of Anthony L. Guido Jr.; thence,

easterly and parallel to Seneca Street 103.3 feet more or less on the line between the lands said Guido on the south and the lands of said American Linen Supply Company on the north to a point, said point being a corner of the last mentioned lands; thence,

southerly and at right angles to Seneca Street 140 feet more or less, continuing on the line between the last mentioned lands to a point in the north line of said Seneca Street; thence,

easterly along the north line of said Seneca Street 25 feet more or less to a point on said northerly line, said point being on the line between the lands now or formerly of Luis F. and Rosa A. Rodriguez on the east and said American Linen Supply Company on the west; thence,

northerly and at right angles to Seneca Street 140 feet more or less to a point, said point being a corner of the last mentioned lands; thence, easterly continuing on the line between the last mentioned lands and parallel to Seneca Street 28.8 feet more or less to a point, said point being a corner of last mentioned lands; thence,

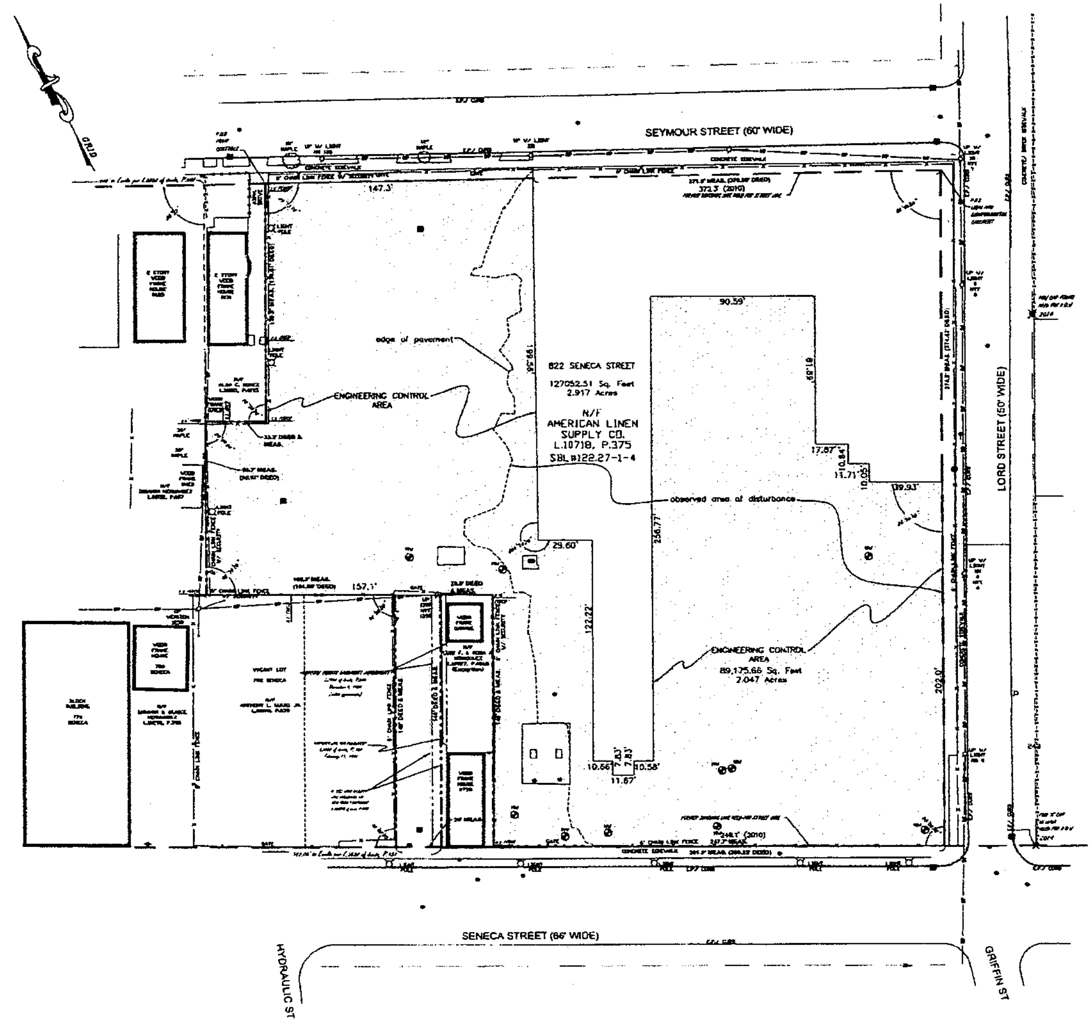
southerly continuing on the line between the last mentioned lands and at right angles to Seneca Street 140 feet more or less to a point on the north line of said Seneca Street; thence,

easterly along the north line of said Seneca Street 247.7 feet more or less to the intersection with the west line of said Lord Street; thence,

northerly along the west line of said Lord Street 374.5 feet more or less to the point or place of beginning. Containing 127,052.51 sq. ft, 2.917 acres of land more or less.

Intending to describe the same parcel of lands described in a deed from the Erie County Industrial Development Agency to American Linen Supply Co. as recorded in Liber 10718 of deeds, page 375 and Ameripride Services Inc. (f/k/a American Linen Supply Company) to Mill Race Commons, LLC as recorded in Liber 11259 of deeds, page 343.

Subject to all easements, covenants, agreements and restrictions contained in Liber 11259 of deeds, page 343 and of record.



Proposed Legal description: 822 SENECA STREET & ENVIRONMENTAL EASEMENT

All that tract or parcel of land situate in the city of Buffalo, County of Erie, State of New York, being part of Lot 17, Township 11, Range 8 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at the intersection of east line of Lord Street and the south line of Seymour Street (AKA South Canal Street); thence,

westerly, along the said south line of Seymour street 371.9 feet more or less to a point on said southerly line, said point being on the line between the lands now or formerly of Alba C. Gomez on the west and the lands now or formerly American Linen Supply Company on the east; thence,

southerly on said line and at right angles to Seneca street (AKA Seneca Village Road), 130.9 feet more or less to a point, said point being a corner of said lands; thence,

northerly and parallel to said Seneca Street continuing on the line between said lands 33.2 feet more or less to a point, said point being on the easterly line of the lands now or formerly of Ibrahim Hernandez; thence,

southerly 93.7 feet more or less along the line between the lands of said Hernandez and the lands of said American Linen Supply Company to a point, said point being on the northerly line of the lands now or formerly of Anthony L. Guido Jr.; thence,

westerly and parallel to Seneca Street 103.3 feet more or less on the line between the lands said Guido on the south and the lands of said American Linen Supply Company on the north to a point, said point being a corner of the last mentioned lands; thence,

southerly and at right angles to Seneca Street 140 feet more or less, continuing on the line between the last mentioned lands to a point in the north line of said Seneca Street; thence,

easterly along the north line of said Seneca Street 25 feet more or less to a point on said northerly line, said point being on the line between the lands now or formerly of Luis F. and Rosa A. Rodriguez on the east and said American Linen Supply Company on the west; thence,

northerly and at right angles to Seneca Street 140 feet more or less to a point, said point being a corner of the last mentioned lands; thence, easterly continuing on the line between the last mentioned lands and parallel to Seneca Street 28.8 feet more or less to a point, said point being a corner of last mentioned lands; thence,

southerly continuing on the line between the last mentioned lands and at right angles to Seneca Street 140 feet more or less to a point on the north line of said Seneca Street; thence,

easterly along the north line of said Seneca Street 247.7 feet more or less to the intersection with the east line of said Lord Street; thence,

northerly along the west line of said Lord Street 374.5 feet more or less to the point or place of beginning. Containing 127,052.51 sq. ft. 2.917 acres of land more or less.

Intending to describe the same parcel of lands described in a deed from the Erie County Industrial Development Agency to American Linen Supply Co. as recorded in Liber 10718 of deeds, page 375 and Ameripride Services Inc. (f/k/a American Linen Supply Company) to Mill Race Commons, LLC as recorded in Liber 11259 of deeds, page 343.

Subject to all easements, covenants, agreements and restrictions contained in Liber 11259 of deeds, page 343 and of record.

Proposed Legal description: ENVIRONMENTAL CONTROLS

All that tract or parcel of land situate in the City of Buffalo, County of Erie, State of New York, being part of Lot 17, Township 11, Range 8 of the Holland Land Company's Survey, bounded and described as follows:

Commencing at the intersection of west line of Lord Street and the south line of Seymour Street (AKA South Canal Street); thence,

westerly, along the said south line of Seymour street 371.9 feet more or less to a point on said southerly line and the point of place of beginning, said point being on the line between the lands now or formerly of Alba C. Gomez on the west and the lands now or formerly American Linen Supply Company on the east; thence,

southerly on said line and at right angles to Seneca street (AKA Seneca Village Road), 130.9 feet more or less to a point, said point being a corner of said lands; thence,

northerly and parallel to said Seneca Street continuing on the line between said lands 33.2 feet more or less to a point, said point being on the easterly line of the lands now or formerly of Ibrahim Hernandez; thence,

southerly 93.7 feet more or less along the line between the lands of said Hernandez and the lands of said American Linen Supply Company to a point, said point being on the northerly line of the lands now or formerly of Anthony L. Guido Jr.; thence,

easterly and parallel to Seneca Street 157.1 feet more or less on the line between the lands said Guido and Luis F. and Rosa A. Rodriguez on the south and the lands of said American Linen Supply Company on the north to a point, said point being a corner of the last mentioned lands of Rodriguez; thence,

southerly continuing on the line between the last mentioned lands and at right angles to Seneca Street 140 feet more or less to a point on the north line of said Seneca Street; thence,

easterly along the north line of said Seneca Street 247.7 feet more or less to the intersection with the west line of said Lord Street; thence,

northerly along the west line of said Lord Street 202.0 feet to a point on said last line; thence, through the lands of said American Linen Supply Company the following 16 courses and distances:

1) at an angle to the right of 88°58'48" a distance of 39.93 feet to a point; thence,
2) at an angle to the right of 270°00'00" a distance of 10.05 feet to a point; thence,
3) at an angle to the right of 90°00'00" a distance of 11.71 feet to a point; thence,
4) at an angle to the right of 270°00'00" a distance of 10.84 feet to a point; thence,
5) at an angle to the right of 90°00'00" a distance of 17.87 feet to a point; thence,
6) at an angle to the right of 270°00'00" a distance of 81.89 feet to a point; thence,
7) at an angle to the right of 90°00'00" a distance of 90.59 feet to a point; thence,
8) at an angle to the right of 90°00'00" a distance of 256.77 feet to a point; thence,
9) at an angle to the right of 270°00'00" a distance of 10.58 feet to a point; thence,
10) at an angle to the right of 90°00'00" a distance of 7.83 feet to a point; thence,
11) at an angle to the right of 270°00'00" a distance of 11.67 feet to a point; thence,
12) at an angle to the right of 270°00'00" a distance of 7.83 feet to a point; thence,
13) at an angle to the right of 90°00'00" a distance of 10.66 feet to a point; thence,
14) at an angle to the right of 270°00'00" a distance of 122.22 feet to a point; thence,
15) at an angle to the right of 90°00'00" a distance of 29.60 feet to a point; thence,
16) at an angle to the right of 288°14'29" a distance of 199.56 to a point on said south line of Seymour Street; thence,

westerly, along the said south line of Seymour street 147.3 feet more or less to the point of place of beginning, containing containing 89,175.66 sq. ft., 2.047 acres of land more or less.

The above area is based on a diagram provided by Nixon Peabody and is intended to describe the area associated with engineering control for environmental purposes effecting said parcel.

REFERENCES:

Liber 3837 of deeds, page 154 Boundary Line Agreement
Liber 2944 of deeds, page 276 Ingress/ Egress Easement
Liber 11005 of deeds, page 4195 Seymour adjoiner
Liber 8852 of deeds, page 607 Seymour adjoiner
Liber 10280 of deeds, page 839 Seneca adjoiner
Liber 10718 of deeds, page 375, Former subject deed
Liber 11259 of deeds, page 343 Subject deed

MAP BY KRAUSE & GANTZER, ENTITLED RESURVEY, DATED APRIL 5, 1991
MAP ENTITLED SURVEY FOR MAURICE YELLEN, DATED JULY 24, 1947
MAP BY KRAUSE & GANTZER, ENTITLED RESURVEY, DATED OCTOBER 29, 1979

Abstract of Title by Trinity Title & Abstract Corporation, on behalf of Stewart Title Insurance Company, being Search No. S14-2220, dated March 4, 2014.

TITLE:

This Survey was completed with the aid of a title search for easements by Liberty Abstract of New York, Inc., search no. 10343. A formal abstract was not provided, however the search was completed November 11, 2010. A 20 year search was completed and no easements, except those shown were found. Parcel is subject to any easements, restrictions and encumbrances that research beyond that completed may show.

The parcel shown may be subject to an easement related to the pole line running along the southerly and westerly side of the property. No easement was found during the title research.

NOTES:

The Right of Way of Lord Street was revised from its original determined location using average curb splits in 2010 due to additional evidence along the east Right of Way found during the field survey completed in April 2014 as shown. Lord Street is a public roadway with a width of 50 feet as shown. This width has not changed. Only the location of the right way has been more accurately determined from the April 2014 survey. The revised distances along Seneca and Seymour have been shown along with the 2010 distances which are dotted for reference purposes.

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.

— OP — OP — OVERHEAD UTILITY LINE
— — — RIGHT OF WAY
— - — PROPERTY LINE

CERTIFICATION

We, Hoffman Land Surveying & Geomatics, hereby certify to:

1. Mill Race Commons, LLC,
2. AMERIPRIDE SERVICES INC.;
3. Nixon Peabody LLP, and
4. Kavinoky Cook LLP

That this is an accurate map showing the results of an actual survey originally performed in November, 2010 and updated April, 2014 on the parcel of land shown.

0' 30' 60' 90'

ABBREVIATIONS.

CL -	CENTER
MEAS -	MEASURE
COMB -	COMBINED
ELE. -	ELECTRIC
N/F -	NOW OR FORMERLY
CONC -	CONCRETE
UP -	UTILITY POLE
E.P. -	EDGE OF PAVEMENT
(TYP.) -	TYPICAL

LEGEND.

- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- UNKNOWN MANHOLE
- UTILITY POLE
- LIGHT POLE
- HYDRANT
- SIGN
- DECIDUOUS TREE
- CATCHBASIN
- MONITORING WELL

HOFFMAN
LAND SURVEYING AND GEOMATICS

540 Packetts Landing Ph: 585.348.7574
Fairport, New York 14450 Fx: 888.614.0136

ADDED SBL # TO SUBJECT PARCEL	AUG. 23, 2014	LNH
REVISIONS:	DATE:	BY:

8/13/14

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EDUCATION LAW
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW SECTION 7209.2 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR SURVEYOR TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE PERSON WHO ALTERED THE PLANS SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK STATE EDUCATION LAW SECTION 7209.2.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL OR RED INK STAMP SHALL BE CONSIDERED VALID AND TRUE COPIES.

FEATURES SHOWN HEREON ARE BASED ON A FIELD SURVEY PERFORMED IN NOVEMBER 2010 AND FIELD SURVEY PERFORMED APRIL 2014 TO UPDATE THIS SURVEY.

THIS MAP MAY NOT BE USED IN CONNECTION WITH A "SURVEY AFFIDAVIT" OR SIMILAR DOCUMENT, STATEMENT OR MECHANISM TO OBTAIN TITLE INSURANCE FOR ANY SUBSEQUENT OR FUTURE GRANTEES.

THIS SURVEY WAS PREPARED FOR THE PARTIES AND PURPOSES INDICATED HEREON. ANY EXTENSION OF THIS USE BEYOND THE PURPOSE AGREED TO BETWEEN THE CLIENT AND THE SURVEYOR EXCEEDS THE SCOPE OF THIS ENGAGEMENT.

CERTIFICATION INDICATED OR IMPLIED HEREON, SHALL RUN ONLY TO THE PARTY OR PARTIES FOR WHOM THE SURVEY WAS PREPARED, AND ON BEHALF OF THE PARTY OR PARTIES. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL PARTIES OR SUBSEQUENT OWNERS, NOT LISTED HEREIN.

CLIENT
AMERIPRIDE SERVICES, INC
10801 Wayzata Blvd.
Minnetonka, MN 55305

BOUNDARY SURVEY UPDATE		
DRAWN: LB	DATE: 08/02/14	LANDS N/F MILL RACE COMMONS, LLC PART OF LOT 17, TOWNSHIP 11, RANGE 8 OF THE HOLLAND LAND COMPANY'S SURVEY
APPROVED	DATE	
SCALE: 1" = 30'	SHEET: SV-1	PROJECT NO. 14-012

APPENDIX B –

EXCAVATION WORK PLAN

Note: The January 2021 NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Guidelines, DER-10, and NYSDOH's current air monitoring procedures must be followed during onsite soil/fill management.

B-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the Site Owner or its representative will notify the Department. Currently, this notification will be made to:

Megan Kuczka
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, New York 14203-2915
(716) 851-7220
Megan.Kuczka@dec.ny.gov

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent, plans for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control,
- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work,
- A summary of the applicable components of this EWP,
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120,
- A copy of the contractor's health and safety plan, in electronic format, if it differs from the HASP provided in Appendix C of this SMP,
- Identification of disposal facilities for potential waste streams,
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

B-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based soil screening will be performed by a Qualified Environmental Professional during all remedial and development excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal, material that requires testing, material that can be returned to the subsurface, and material that can be used as cover soil. Characteristics of the types of stockpiles are shown in the table below.

Table B1: Types of Stockpiles and Management Options

Stockpile Characteristics	Reuse onsite without further testing (Section B-7)	May be reused onsite pending analytical testing (Section B-7)	Dispose offsite per applicable regulations and landfill requirements (Section B-4 through B-6)
Material excavated from above the demarcation layer that is not visually impacted with free product, oily material, solid waste, or other evidence of contamination (staining, odor, elevated PID hits).	✓		
Material excavated from below the demarcation layer or material excavated from above the demarcation layer with evidence of impact (staining, odor, elevated PID hits)		✓	
Material excavated that is visually impacted by oily material[1]			✓

1. If this material is encountered during excavations, additional testing and reporting requirements may be required depending on the quantity and nature of impacted material identified. Refer to Section B-12 below.

B-3 STOCKPILE METHODS

Stockpiles of presumed impacted material (e.g. from beneath the demarcation layer) will be kept covered at all times with appropriately anchored tarps, or on and beneath poly-sheeting with minimum of 6-mil thickness. If stockpiles are located near drainage wastes, or are larger than can be contained by poly-sheeting, soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced. Soils may also be containerized in appropriate containers (drums, rolloffs, etc.) if quantities warrant such management.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC.

B-4 MATERIALS EXCAVATION AND LOAD OUT

In the event that excavation and load out of materials is required the following will occur (also refer to Section B-5 below):

- A Qualified Environmental Professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.
- The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.
- The presence of utilities and easements on the Site will be investigated by the Qualified Environmental Professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the Site.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-site soil tracking.

The Qualified Environmental Professional will be responsible for ensuring that all egress points for truck and equipment transport from the Site are clean of dirt and other materials derived from the Site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

B-5 MATERIALS TRANSPORT OFF-SITE

In the event that Materials require transport offsite, the following will occur:

- All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.
- Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.
- Truck transport routes will be identified that will: (a) limit transport through residential areas and past sensitive sites; (b) take into account use of city mapped truck routes; (c) minimize off-site queuing of trucks entering the facility; (d) limit total distance to major highways; (e) promote safety in access to highways; and (f) consider overall safety in transport.
- Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.
- Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during site remediation and development.

- Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

B-6 MATERIALS DISPOSAL OFF-SITE

All soil/fill/solid waste excavated and removed from the Site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Track 1 unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility) without a beneficial use determination issued by NYSDEC.

B-7 MATERIALS REUSE ON-SITE

B-7.1 Criteria for Onsite Reuse

As noted in Section B-3 above, the following soils may be reused onsite:

- Material excavated from above the demarcation layer that is not visually impacted with free product, oily material, solid waste, or other evidence of contamination (staining, odor, elevated PID hits) may be reused onsite without further testing.

- Material excavated from below the demarcation layer or material excavated from above the demarcation layer with evidence of impact (staining, odor, elevated PID hits) may be reused onsite pending testing results described below.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

B-7.2 Sampling for Reuse Protocol

Soils that require testing prior to reuse will be tested as described below. If the soil will be disposed offsite, the disposal facility may require different and/or additional analysis. Chemical criteria for on-site reuse of material have been approved by NYSDEC and are listed in Table 1 of the SMP (refer to the Tables section of this SMP). Note that the SCOs listed in Table 1 represent the NYSDEC cleanup criteria as of the date of this SMP and include site-specific cleanup criteria for tetrachloroethene and trichloroethene as approved in the 2014 RAWP. Should those criteria be revised in the future, the most recent available cleanup criteria should be used.

1. Sampling will be conducted by a qualified Site Owner representative, consultant, or contractor.
2. Each sample will be collected using a decontaminated or new stainless steel, or plastic disposable device (hand trowel, shovel, scoop, hand augers, or other appropriate sampling equipment). To minimize the potential for cross-contamination, disposable sampling equipment will be used if possible. If sample equipment is reused, the equipment will be decontaminated prior to each use using the following procedure:
    a. Potable water/non-phosphate detergent (i.e. – Alconox) solution wash
    b. Potable or distilled water rinse

c. Wipe or air dry

3. For similarly stockpiled/containerized soils, collect two (2) discrete samples per 1,000 cubic yards of material in laboratory provided samplers for analysis for Volatile Organic Compounds (VOCs) via EPA Method 8260B, Semivolatile Organic Compounds (SVOCs) via EPA Method 8270C and RCRA 8 Metals via EPA Method 6010/7471.

4. Immediately upon collection, samples will be labeled and placed in coolers, chilled with ice to approximately 4°C. The sample labels will identify the soil stockpile or container group, sample type, time and date of collection, name of the sampler, and required analyses. Sealed sample coolers will be delivered with accompanying chain of custody documentation to an ELAP-certified laboratory for analysis.

5. Based on the results of the sampling:

    a. If VOC concentrations are below the site-specific protection of groundwater SCOs, and SVOCs and metals are below the commercial use SCOs (Table 1 of the SMP), <u>the soil may be reused onsite above the demarcation layer</u>.

    b. If VOC concentrations are below the site-specific protection of groundwater SCOs, but SVOCs and/or metals are above the commercial use SCOs (Table 1 of the SMP), <u>the soil may be reused onsite below the demarcation layer.</u>

    c. If VOC concentrations are above the site-specific protection of groundwater SCOs, <u>the soil must be disposed of offsite</u> per applicable regulations and landfill requirements.

The Qualified Environmental Professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for re-use on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

B-8 FLUIDS MANAGEMENT

All liquids to be removed from the Site, including excavation dewatering and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the Site, but will be managed off-site.

Discharge of water generated during large-scale construction activities to surface waters (i.e., a local pond, stream or river) will be performed under a SPDES permit.

B-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the Decision Document. The demarcation layer, consisting of geotextile fabric in the former slab-on-grade area or pavement in the former parking area (refer to Section 2.2.1.1) or equivalent material will be replaced to provide a visual reference to the top of the 'Remaining Contamination Zone', the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this Site Management Plan.

If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the 'Remaining Contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in any updates to the Site Management Plan.

B-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the Site will be approved by the Qualified Environmental Professional and will be in compliance with provisions in this SMP prior to receipt at the Site. Refer to the table below for appropriate backfill sources and pre-screening requirements.

Trucks entering the Site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

Table B2: Types of Backfill Sources Pre-Screening Requirements

Material and source	May be used onsite without further testing	May be used onsite pending analytical testing (Section B-10.1)	May not be used onsite
Commercially purchased bagged topsoil used for landscaping purposes.	✓		
Gravel, rock, or stone (non-soil) consisting of virgin material from a permitted mine or quarry.	✓		
Recycled concrete or brick from a DEC registered C&D processing facility[1,2].	✓		
Soil or sand imported from a virgin mine or pit.		✓	
Material (including gravel, rock, stone, sand, soil, etc.) from sources other than a virgin mine or pit.		✓	
Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites.			✓
Material that meets the definition of solid waste.			✓

1. Recycled material must conform to the requirements of Section 304 of the New York State Department of Transportation *Standard Specifications Construction and Materials Volume 1 (2002)*.

2. Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

B-10.1 Sampling Protocols for Offsite Backfill Sources

All imported soils that require testing will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are considered the lower of the protection of groundwater SCOs and commercial use SCOs and are listed in Table 1 of the SMP. The SCOs listed in Table 1 of the SMP represent the most recent iteration NYSDEC soil criteria prepared as of the date of this SMP. Should those soil criteria be revised in the future, the most recent available cleanup criteria should be used.

For the sources listed above that require analytical testing, the testing shall consist of the following in accordance with the May 2010 DER-10:

Target Compound List VOCs (EPA Method 8276B)
Target Compound List SVOCs (EPA Method 8270C)
Target Analyte List Metals (EPA Method 6010/7471)
PCBs & Pesticides (EPA Method 8081)

Testing shall be performed by an ELAP-certified laboratory. The frequency of sampling will depend on the source of the material as follows:

- <u>Soil or sand from a virgin mine or pit</u>: Two (2) discrete samples for VOCs and one (1) composite sample for SVOCs, inorganic compounds, PCBs, and pesticides from the initial 100 cubic yards of material, only.
- <u>Materials from other sources</u>: Sample at a frequency based on the amount of material per the table below or at a frequency agreed upon with the NYSDEC.

Table B3: Recommended Sampling Frequency for Imported Materials Requiring Testing

Soil Quantity (cubic yards)	**VOCs** *(discrete samples)*	**SVOCs, Inorganics, PCBs & Pesticides** *(composite samples[1])*
0-50	1	1
50-100	2	1
100-200	3	1
200-300	4	1
300-400	4	2
400-500	4	2
500-800	6	2
800-1,000	7	2
>1,000	Add an additional 2 VOC and 1 composite for each additional 1,000 cubic yards or consult the NYSDEC.	

1. 3-5 discrete samples from different locations in the fill being provided will comprise a composite sample for analysis.

B-11 STORMWATER POLLUTION PREVENTION

If construction or excavation is performed that exceeds the criteria for construction-related stormwater pollution prevention control, during the duration of construction and until cover is restored, Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

B-12 CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for full a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the periodic reports prepared pursuant to Section 5 of the SMP.

B-13 COMMUNITY AIR MONITORING PLAN

The Contractor is required to perform air monitoring for its own activities, in conformance to the Contractor's HASP. In addition, the Contractor shall follow the community air monitoring procedures set forth in the NYSDOH Generic Community Air Monitoring Plan (CAMP), which is attached to this document as Appendix D.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

B-14 ODOR CONTROL PLAN

This odor control plan is capable of controlling emissions of nuisance odors off-site. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events Implementation of all odor controls, including the halt of work, is the responsibility of the property owner's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

Reasonable and customary means will be employed to prevent on- and off-site nuisances. These measures may include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

B-15 DUST CONTROL PLAN

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.

- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

B-16 OTHER NUISANCES

If needed, a plan for rodent control will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work. A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

APPENDIX C –

SAMPLE HEALTH & SAFETY PLAN

HALEY & ALDRICH

Safety in everything we do

HALEY & ALDRICH, INC.
SITE-SPECIFIC HEALTH & SAFETY PLAN

For

Former American Linen Supply Co Facility

Site Management

Buffalo, New York

Project/File No. 37319-054

Prepared by: Claire L. Mondello   Date: 8/27/2014

Revised by: Janice D. Szucs   Date: 9/14/2021

APPROVALS: The following signatures constitute approval of this Health & Safety Plan

______________________________   ____________

Margaret B. Holt - Local H&S Coordinator   Date

______________________________   ____________

Jance D. Szucs - Site Project Manager   Date

Note: This HASP has been developed for Haley & Aldrich purposes only and is not for use by others.

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1. PROJECT INFORMATION AND EMERGENCY RESOURCES

Project Name: Former American Linen Supply Co Facility Site Management Plan	**H&A File No.: 127836**
Location: 822 Seneca Street, Buffalo, New York	
Client/Site Contact:	Client: Becky Armbruster; (317) 371-6132 Site: Brad Glass; (716) 830-5060
H&A Project Manager: Phone Number: Emergency Phone Number:	Janice Szucs 585.321.4211 585.315.4761
Local Health & Safety Coordinator: Emergency Phone Number:	Margaret Holt (585) 321-4214 (585) 721-2426
Nearest Hospital: Address: (see map on next page) Phone Number:	Buffalo General Hospital 100 High Street Buffalo, NY 14210 (716) 859-5600
Nearest Occ. Health Clinic: **http://www.talispoint.com/liberty/ext/** Address: (see map on next page) Phone Number	Pulse Occupational Medicine 7616 Transit Road Buffalo, New York 14221 716-204-2273
Liberty Mutual Claim Policy	**Updated annually**
Emergency Response Number:	**911**
Other Local Emergency Response Number:	911
Other Ambulance, Fire, Police, or Environmental Emergency Resources:	911

Work Scope:

This Site-Specific Health and Safety Plan addresses the health and safety practices and procedures that will be employed by all Haley & Aldrich employees participating in the site characterization of the Project Site. This plan is based on an assessment of the site-specific health and safety risks available to Haley & Aldrich and Haley & Aldrich's experience with other project sites. The scope of work for the Site Characterization includes:

Task #1: Site-Wide Groundwater Sampling

Site-wide groundwater sampling will occur at onsite wells. Static water levels will also be collected.

Task #2: Excavation Monitoring (if needed):

If needed, oversight will be provide to screen soils beneath the demarcation layer during excavations for future development. Activities will include screening with a PID, collecting soil characterization samples for reuse and/or disposal, and conducting community air monitoring.

Task #3: Monitoring Well Closure, Maintenance, and Repair (if needed)

If during routine monitoring, wells are identified that are no longer functioning, those wells may be repaired (e.g. risers cut, new covers, etc.) or replaced. If a well is no longer needed, it will be decommissioned.

Task #4: Offsite SVI Investigation (if needed)

A vapor intrusion investigation consisting of a product inventory, installation of a sub-slab vapor point, 24 hour sampling of sub-slab vapor, indoor air, and outdoor air will be conducted at the property at 798 Seneca Street, adjacent to the subject site if requested by the NYSDEC.

Subcontractor(s) to be involved in on-site activities:

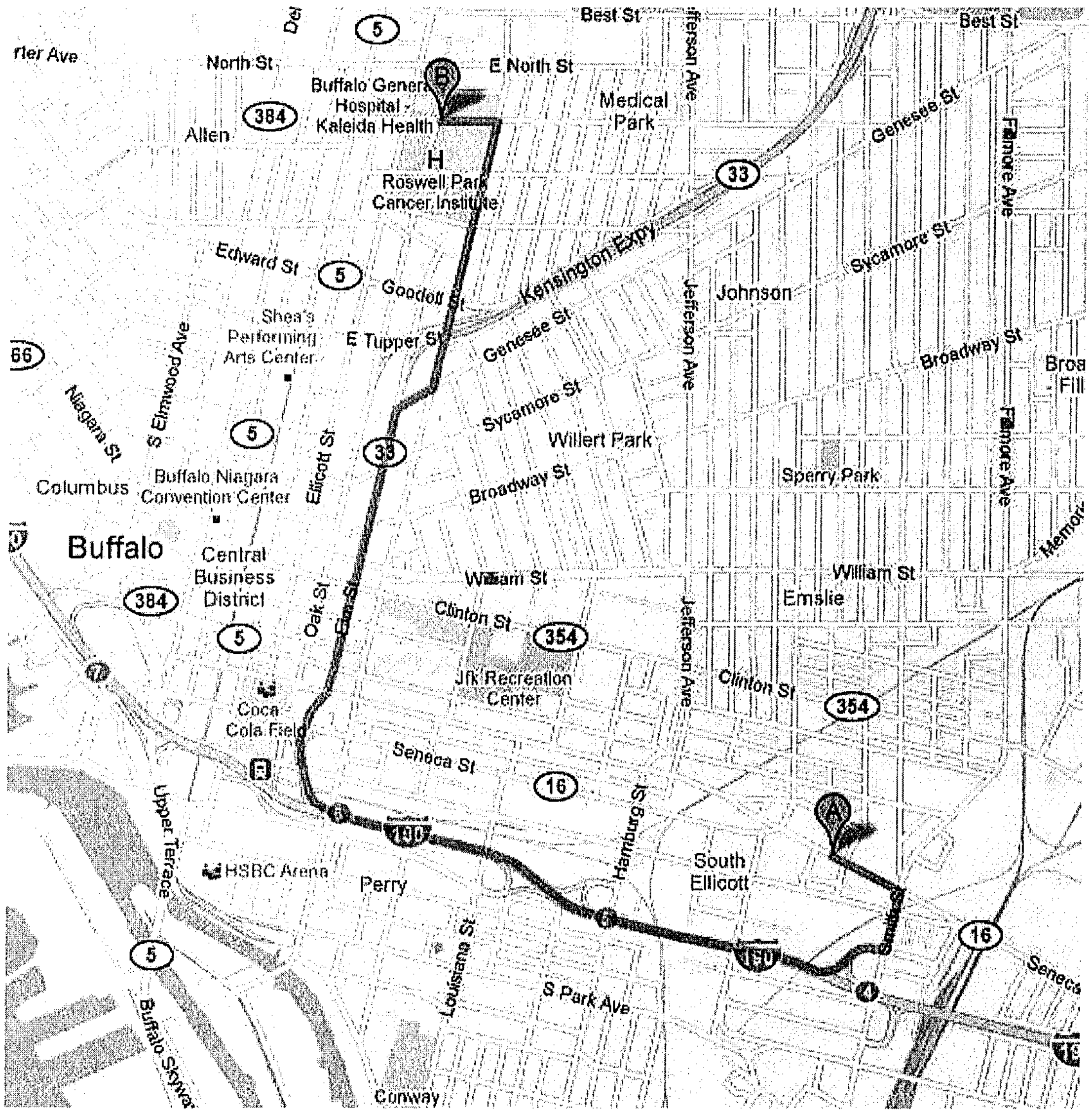
Firm Name	Work Activity
Excavation Contractor (TBD)	Site Excavations
Drilling Contractor (TBD)	Well repair, install, decommissioning

Projected Start Date: January 2015

Projected Completion Date: No Completion Date

Estimated Number of Days to Complete Field Work: Varying number of days per year

Directions to the Nearest Hospital:



Note: This HASP is developed for Haley & Aldrich purposes only and not for use by others.

822 Seneca St
Buffalo, NY 14210

1. Head **southeast** on **Seneca St** toward **Lord St**

0.2 mi

2. Take the 2nd right onto **Smith St**

0.1 mi

3. Turn right to merge onto **I-190 N** toward **Niagara Falls**

1.4 mi

4. Take exit 6 toward **Elm St**

0.2 mi

5. Slight right at **Carroll St/Center St/Elm St**

0.2 mi

6. Turn right at **Genesee St**

0.1 mi

7. Take the 1st left onto **Michigan Ave**

0.6 mi

8. Turn left at **High St**

0.1 mi

Kaleida Health-Buffalo General Division
100 High Street
Buffalo, NY 14203

2. SITE DESCRIPTION

Site Classification:

☑ Industrial	☑ Commercial	☐ Other

General Description:

The Site is located at 822 Seneca Street in the City of Buffalo, Erie County, New York. The Site is identified on the City of Buffalo tax maps as the parcel with section 122.27, block 1, lot 4, and is approximately 2.91 acres. The Site is located on the west side of Lord Street and bound to the north by Seymour Street and the south by Seneca Street, and is approximately one mile north of the Buffalo River.

AmeriPride Services, Inc. owned the property from approximately 1978 (formerly as American Linen Supply Company) until January 2014, when it was sold to Mill Race Commons, LLC. The site was most recently used as an industrial dry cleaner/launderer. The site was formerly developed with an industrial building that was demolished in 2012. The Site is located in an urban area of mixed industrial, commercial land use. The Site is currently zoned for light industrial use.

Project Scope:

The site has undergone investigation and remediation under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) and is currently under site management. Site management activities include routine groundwater monitoring, routine site inspections, excavation monitoring and soil sampling as needed for future development, and indoor air/sub-slab vapor testing if needed based on changed site conditions.

Overview of Hazards:

Potential hazards include the following:

- Excavations (hazards from heavy equipment and falling)
- Extreme weather
- Heavy equipment
- Utilities
- Fumes & Dust
- Chemical hazards from onsite contamination
- Noise
- Entering properties with unknown occupants (adjacent rental property)

Site Status: Indicate current activity status and describe operations at the site.

☐ Active ☑ Inactive

☐ Partially active ☐ Other

Site Plan:

Is a site plan or sketch available? ☑ Y ☐ N

Work Areas:

Site management activities are site-wide with the exception of potential indoor air/sub-slab vapor sampling which would occur at the adjacent property located at 798 Seneca Street.

3. PROJECT TASK BREAKDOWN

List and describe each distinct work task below.

Task No.	Detailed Task Description	Employee(s)	Work Date(s) or Duration
1	Groundwater Monitoring	TBD	1 week per event
2	Excavation Monitoring and Soil Testing	TBD	As needed
3	Monitoring Well Repair, Install, Decommissioning	TBD	As needed
4	Sub-slab Vapor/Indoor Air Testing	TBD	3 days per event

4. HAZARD ASSESSMENT

Safety Data Sheets (SDS) of hazardous materials used during the execution of work shall be available on site. SDSs are required for chemicals used to prepare samples, calibration gases, etc. SDSs are not required for waste materials.

Chemical Hazards:

Does chemical analysis data indicate that the site is contaminated? ☑ Y ☐ N

Indicate the potential physical state of the hazardous materials at the site.

- ☑ Gas/Vapor
- ☑ Liquid
- ☐ Sludge
- ☑ Solid/Particulate

Indicate the anticipated or actual class of compounds at the site.

- ☐ Asbestos
- ☐ BTEX
- ☑ Chlorinated Solvents
- ☑ Heavy Metals
- ☑ Inorganics
- ☐ Pesticides
- ☐ Petroleum products
- ☑ Other PAHs

Impacted Environments:

Indicate media in which contamination is expected.

- ☑ Air
- ☑ Soil
- ☐ Surface water
- ☑ Groundwater
- ☐ Sediment
- ☐ Other Specify

Estimated concentrations:

Indicate medium of major chemicals expected to be encountered by onsite personnel.

Work Activity	Media	Chemical	Anticipated Concentration
Groundwater Monitoring	GW A	Chlorinated VOCs VOCs	ND – 5 ppm ND – 25,000 ug/m3
Excavation Monitoring and Soil Testing	SO GW A	Chlorinated VOC PAHs & Metals Chlorinated VOCs VOCs	ND – 100 ppm ND – 1000 ppm ND – 5 ppm ND – 25,000 ug/m3
Monitoring Well Repair, Install, Decommissioning	GW SO	Chlorinated VOCs Chlorinated VOCs PAHs	ND – 1000 ppb ND – 100 ppm ND – 150 ppm
Sub-slab Vapor/Indoor Air Testing	A	VOCs	ND – 25,000 ug/m3

(Media key: A = Air; GW = Groundwater; SW = Surface Water; SO = Soil; SE = Sediment)

Chemicals of Concern:

Trichloroethylene (TCE) is a colorless, nonflammable, non-corrosive liquid has a "sweet" odor characteristic of some chlorinated hydrocarbons.

The compound is incompatible with strong caustics, it reacts with aluminum when acidic, and it is incompatible with active metals - barium, lithium, sodium, magnesium, and titanium. Decomposition of TCE, due to contact with hot metal or ultraviolet radiation, forms products including chlorine gas, hydrogen chloride, and phosgene. Dichloroacetylene may be formed from the reaction of alkali with TCE.

The Cal-OSHA PEL for TCE is 25 PPM as an 8-hour TWA; an acceptable ceiling concentration of 300 PPM; and a STEL of 200 PPM. The OSHA PEL for TCE is 100 ppm as an 8-hour TWA; an acceptable ceiling concentration of 200 ppm; and an acceptable maximum peak ceiling of 300 ppm for no more than 5 minutes in any 2-hour period. The standard routes of entry in the body are through inhalation, percutaneous absorption, ingestion, skin and eye contact. The points of attack are the respiratory system, heart, liver, kidneys, central nervous system and skin.

Exposure to TCE vapor may cause irritation of the eyes, nose, and throat. The liquid, if splashed in the eyes, may cause burning irritation and damage. Repeated or prolonged shin contact with the liquid may cause dermatitis. Acute exposure to TCE depresses the central nervous system exhibiting such symptoms as headache, dizziness, vertigo, tremors, nausea and vomiting, irregular heart beat, sleepiness, fatigue, blurred vision, and intoxication similar to that of alcohol. Unconsciousness and death have been reported. Alcohol may make the symptoms of TCE overexposure worse. If alcohol has been consumed, the overexposed worker may become flushed. TCE addiction and peripheral neuropathy have been reported.

Tetrachloethylene (PCE)

Tetrachloroethylene (PCE) is a colorless, nonflammable liquid with a mild, chloroform-like odor.

PCE is incompatible with strong oxidizers and metals such as lithium, beryllium and barium, caustic soda, sodium hydroxide, and potash. Decomposition of PCE, due to fire, forms products including hydrogen chloride, and phosgene.

The OSHA PEL for PCE is 100 ppm as an 8-hour TWA; an acceptable ceiling concentration of 200 ppm; and an acceptable maximum peak ceiling of 300 ppm for no more than 5 minutes in any 3-hour period. The standard routes of entry in the body are through inhalation, percutaneous absorption, ingestion, skin and eye contact. The points of attack are the respiratory system, heart, liver, kidneys, central nervous system, eyes, and skin.

Symptoms that may occur as a result of exposure to PCE include irritation to the eyes, skin, nose, and throat; respiratory system distress; nausea; flushed face and neck; incoordination; headache; drowsiness; skin erythema; and liver damage.

1,1 and 1,2-Dichloroethylene (1,1-DCE; 1,2-DCE)

1,1 and 1,2-Dichloroethylene (1,1-DCE; 1,2-DCE) is a colorless, class IB flammable liquid with a slightly acrid, chloroform-like odor.

1,1 and 1,2-DCE is incompatible with strong oxidizers, strong alkalis, potassium hydroxide, and metals such as copper, and contains inhibitors to prevent polymerization.

The OSHA PEL for 1,2-DCE is 200 ppm as an 8-hour TWA. There is no OSHA PEL for 1,1-DCE. The 8-hour TWA for 1,1-DCE is 1.0 ppm. The standard routes of entry in the body are through inhalation, ingestion, skin and eye contact. The points of attack are the respiratory system, central nervous system, and eyes.

Symptoms that may occur as a result of exposure to 1,1 and 1,2-DCE include irritation to the eyes; respiratory system distress; central nervous system depression.

Vinyl Chloride (VC)

Vinyl Chloride (VC) is a colorless, liquid or flammable gas with a pleasant odor at high concentrations.

VC is incompatible with oxidizers, peroxides, and metals such as copper, aluminum, iron and steel. VC polymerizes in air, sunlight, or heat unless it is stabilized by inhibitors such as phenol. It attacks iron and steel in the presence of moisture.

The OSHA PEL for VC is 1 ppm as am 8-hour TWA, and an acceptable ceiling of 5 ppm in a 15 minute period. The standard routes of entry in the body are through inhalation, skin and eye contact. The points of attack are the respiratory system, central nervous system, liver, blood, and lymphatic system.

Symptoms that may occur as a result of exposure to VC include weakness and exhaustion; abdominal pain; gastrointestinal bleeding; enlarged liver; and pallor or cyanosis of the extremities. Liquid VC can cause frostbite. VC can also cause liver cancer.

PAHs

Polycyclic aromatic hydrocarbons (PAHs) are a group of over 100 different chemicals that are formed during the incomplete burning of coal, oil and gas, garbage, or other organic substances like tobacco or charbroiled meat. PAHs are usually found as a mixture containing two or more of these compounds, such as soot.

Some PAHs are manufactured. These pure PAHs usually exist as colorless, white, or pale yellow-green solids. PAHs are found in coal tar, crude oil, creosote, and roofing tar, but a few are used in medicines or to make dyes, plastics, and pesticides.

PAHs, as a group, are strongly hydrophobic, and therefore sorb to organic-based soil particles. Exposures to elevated levels of PAHs in the workplace could occur in coking, coal-tar, and asphalt production plants; smokehouses; and municipal trash incineration facilities.

Sorption of PAHs to soil and sediments increases with increasing organic carbon content and with increasing surface area of the sorbent particles. Lower molecular weight PAHs may also volatilize from soil. Due to this strong sorption to soil, PAHs do not tend to dissolve easily into and migrate with groundwater. Exposure from affected soil would tend to occur as a result of direct contact with affected soil or inhalation/ingestion of windborne affected soil.

Arsenic

The Occupational Safety and Health Administration has set limits of 10 microgram arsenic per cubic meter of workplace air (10 µg/m3) for 8 hour shifts and 40 hour work weeks. Several studies have shown that inorganic arsenic can increase the risk of lung cancer, skin cancer, bladder cancer, liver cancer, kidney cancer, and prostate cancer. The World Health Organization (WHO), the Department of Health and Human Services (DHHS), and the EPA have determined that inorganic arsenic is a human carcinogen.

Breathing high levels of inorganic arsenic can give you a sore throat or irritated lungs. Ingesting high levels of inorganic arsenic can result in death. Lower levels of arsenic can cause nausea and vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, and a sensation of "pins and needles" in hands and feet.

Lead

The Occupational Safety and Health Administration (OSHA) limits the concentration of lead in workroom air to 50 µg/cubic meter for an 8-hour workday. Lead can affect almost every organ and system in your body. The most sensitive is the central nervous system, particularly in children. Lead also damages kidneys and the immune system. The effects are the same whether it is breathed or swallowed. Exposure to lead is more dangerous for young and unborn children. Unborn children can be exposed to lead through their mothers. Harmful effects include premature births, smaller babies, decreased mental ability in the infant, learning difficulties, and reduced growth in young children. These effects are more common after exposure to high levels of lead. In adults, lead may decrease reaction time, cause weakness in fingers, wrists, or ankles, and possibly affect the memory. Lead may cause anemia, a disorder of the blood. It can cause abortion and damage the male reproductive system. The connection between these effects and exposure to low levels of lead is uncertain.

Mercury

Mercury vapor is highly toxic via this route. Causes severe respiratory tract damage. Symptoms include sore throat, coughing, pain, tightness in chest, breathing difficulties, shortness of breath, headache, muscle weakness, anorexia, gastrointestinal disturbance, ringing in the ear, liver changes, fever, bronchitis and pneumonitis. Can be absorbed through inhalation with symptoms similar to ingestion. May cause burning of the mouth and pharynx, abdominal pain, vomiting, corrosive ulceration, bloody diarrhea. May be followed by a rapid and weak pulse, shallow breathing, paleness, exhaustion, tremors and collapse. Delayed death may occur from renal failure. Gastrointestinal uptake of mercury is less than 5% but its ability to penetrate tissues presents some hazard. Initial symptoms may be thirst, possible abdominal discomfort. Causes irritation and burns to skin. Symptoms include redness and pain. May cause skin allergy and sensitization. Can be absorbed through the skin with symptoms to parallel ingestion. Causes irritation and burns to eyes. Symptoms include redness, pain, and blurred vision; may cause serious and permanent eye damage. Chronic exposure through any route can produce central nervous system damage. May cause muscle tremors, personality and behavior changes, memory loss, metallic taste, loosening of the teeth, digestive disorders, skin rashes, brain damage and kidney damage. Can cause skin allergies and accumulate in the body. Repeated skin contact can cause the skin to turn gray in color. A suspected reproductive hazard; may damage the developing fetus and decrease fertility in males and females. Persons with nervous disorders, or impaired kidney or respiratory function, or a history of allergies or a known sensitization to mercury may be more susceptible to the effects of the substance.

The OSHA Acceptable Ceiling Concentration for mercury and mercury compounds: 0.1 mg/m3 (TWA), skin contact is a parameter in determining exposure for mercury.

TABLE 1
OCCUPATIONAL EXPOSURE LIMITS (CONCENTRATIONS IN AIR)

(CIRCLE CONTAMINANTS OF CONCERN, WRITE ADDITIONAL CONTAMINANTS AND EXPOSURE ON LAST PAGE)

CHEMICAL	ROUTES OF EXPOSURE	IDLH	Ceiling	STEL	PEL	TLV	REL	PID (IP eV)	FID	ODOR THRES-HOLD	IRRITATION THRESHOLD	ODOR DESCRIPTION
VAPORS & GASES												
Acetone	R, I, C	2500	-	750 [ACGIH]	1000	500	250	9.69	60	13	-	fragrent, mint-like
Ammonia	R, I, C	300	-	35 [NIOSH, ACGIH]	50	25	25	10.18**	-	0.5-2	10	Pungent suffocating odor
Benzene	R,A,I,C	Ca [500]	-	1 [NIOSH]; 2.5 [ACGIH]	1	0.5	0.1	9.24	150	4.68	-	Solvent, aromatic
Carbon tetrachloride (Tetrachloromethane)	R,A,I,C	Ca [200]	25 [instantaneous] 200 [5 min peak in any 4	2 [NIOSH, 60-min]; 10 [ACGIH]	2	5	Ca	11.47**	10	50	-	Sweet, pungent, ether-like
Chlorobenzene	R,I,C	1000	-	-	75	10	-	9.07	200	0.68	-	Almond-like
Chloroform	R,I,C	Ca [500]	50 [OSHA]	2 [NIOSH, 60-min]	-	10	-	11.42**	65	50	-	Sweet, pleasant
o-Dichlorobenzene	R,A,I,C	200	50 [NIOSH, OSHA]	50 [ACGIH]	-	25	-	9.06	50	0.3	E 20-30	Pleasant, aromatic
p-Dichlorobenzene	R,A,I,C	Ca [150]	-	-	75	10	Ca	8.98	-	0.18	E 80-160	Distinct, aromatic, mothball-like
Dichlorodifluoromethane (Freon 12)	R,C	15000	-	-	1000	1000	1000	11.75**	15	-	-	Ether-like when at very high concs.
1,1-Dichloroethane	R,I,C	3000	-	-	100	100	100	11.06**	80	200	-	Distinct, chloroform-like
1,2-Dichloroethane (Ethylene dichloride)	R,I,A,C	Ca [50]	100 [OSHA]	2 ppm [NIOSH]; 200 ppm [OSHA, 5-min max peak in any 3 hours]	50	10	1	11.05**	80	88	-	Chloroform-like
1,1-Dichloroethylene (1,1-DCE, Vinylidene chloride)	R,A,I,C	Ca [ND]	-	-	-	5	Ca	10.00**	40	190	-	Chloroform-like
1,2-Dichloroethylene	R,I,C	1000	-	-	200	200	200	9.65	50	0.85	-	Bitter, chloroform-like
Ethanol	R,I,C	3300	-	-	1000	1000	1000	10.47**	25	10	-	Weak, ether-like, wine-like
Ethylbenzene	R,I,C	800	-	125 [NIOSH, ACGIH]	100	100	100	8.76	100	2.3	E 200	Aromatic
Ethylene Glycol	R,I,C	ND	50 [OSHA]; 100 mg/m³ [ACGIH]	-	-	-	-	-	-	-	-	Odorless
Formaldehyde	I,C	Ca [20]	0.1 [NIOSH, 15-min]; 0.3 [ACGIH]	2	0.75	-	Ca [0.016]	10.88**	-	0.83	-	Pungent, suffocating
Gasoline	R,I,A,C	Ca [ND]	-	500 [OSHA; ACGIH]	300	300	-	-	-	-	E 0.5	Petroleum-like
n-Hexane	R,I,C	1100	-	-	500	50	50	10.18	70	130	E.T 1400-1500	Gasoline-like
Hydrogen Cyanide	R,A,I,C	50	4.7 [ACGIH; Skin]	4.7 [NIOSH - skin]	10 [skin]		-	-	-	0.58	-	Bitter almond
Hydrogen peroxide	R,I,C	75	-	-	1	1	1	10.54**	-	-	-	Sharp
Methanol	R,I,A,C	6000	-	250 [NIOSH; ACGIH; skin]	200	200 [skin]	200	10.84**	12	1000	-	Pungent
Methyl Ethyl Ketone Peroxide	R,I,C	ND	0.2 [NIOSH; ACGIH] 0.7 [OSHA]	-	-	-	-	-	-	-	-	Characteristic odor
Methyl Chloroform (1,1,1-TCA)	R,I,C	700	350 [NIOSH, 15-min]	450 [ACGIH]	350	350	Ca	11.00**	105	20-100	-	Chloroform-like
Methylene Chloride (Dichloromethane, Methylene dichloride)	R,I,A,C	Ca [2300]	-	125	25	50	Ca	11.32**	100	25-50	E 5000	Chloroform-like
Methyl Mercaptan	R,C	150	10 [OSHA] 0.5 [NIOSH, 15-min]	-	-	0.5	-	9.44	-	-	-	Garlic, rotten cabbage
MIBK (Hexone)	R,I,C	500	-	75 [NIOSH, ACGIH]	100	50	50	9.30	-	-	-	Pleasant
Naptha (coal tar)	R,I,C	1000	-	-	100	400	100	-	-	-	-	Aromatic
Naphthalene	R,A,I,C	250	-	15 [NIOSH, ACGIH]	10	10	10	8.12	-	0.3	E 15	Mothball-like
Octane	R,I,C	1000	385 [NIOSH, 15-min]	-	500	300	75	9.82	80	48	-	Gasoline-like
Pentachlorophenol	R,A,I,C	2.5 mg/m³	-	-	0.5 mg/m³ [skin]	0.5 mg/m³ [skin]	0.5 mg/m³ [skin]	-	-	-	-	Pungent when hot, benzene-like
Phenol	R,A,I,C	250	15.6 [NIOSH, 15-min]	-	5 [skin]	5 [skin]	5 [skin]	8.50	-	0.04	E.N.T. 68	Sweet, acrid
Propane	R,C	2100	-	-	1000	1000	1000	11.07**	80	1600	-	Odorless (commonly smells foul due to additive for odor detection)
Stoddard Solvent (Mineral Sprits)	R,CI,I	20000 mg/m³	1800 mg/m³ [NIOSH, 15-min]	-	500	100	350 mg/m³	-	-	1	E 400	Kerosene-like
Styrene	R,I,A,C	700	200 [OSHA]	100 [NIOSH]; 600 [OSHA, 5-min max peak in any 3 hours]; 40 [ACGIH]	100	20	50	8.40	85	0.047	E 200-400	Sweet, floral
1,1,2,2-Tetrachloroethane	R,I,A,C	Ca [100]	-	-	5 [skin]	1 [skin]	1 [skin]	11.10**	100	1.5	-	Pungent, chloroform-like
Tetrachloroethylene (Perchloroethylene, Perc, PCE)	R,I,A,C	Ca [150]	200 [OSHA]	300 [OSHA, 5-min max peak in any 3-hours]; 100 [ACGIH]	100	25	Ca	9.32	70	4.68	N.T513-690	Chloroform-like
Toluene	R,A,I,C	500	300 [OSHA]	150 [NIOSH]; 500 [OSHA, 10-min max peak]	200	50	100	8.82	110	2.14	E300-400	Sweet, pungent, benzene-like
Trichloroethylene (TCE)	R,I,A,C	Ca [1000]	200 [OSHA]	300 [OSHA, 5-min max peak in any 2-hours]; 100 [ACGIH]	100	50	Ca	9.45	70	21.4	-	Chloroform-like
1,2,3-Trimethylbenzene	R,I,C	ND	-	-	-	-	25	8.48	-	-	-	Distinctive, aromatic
1,2,4-Trimethylbenzene	R,I,C	ND	-	-	-	-	25	8.27	-	-	-	Distinctive, aromatic
1,3,5-Trimethylbenzene	R,I,C	ND	-	-	-	-	25	8.39	-	-	-	Distinctive, aromatic
Turpentine	R,A,I,C	800	-	-	100	20	100	-	-	200	E.N 200	Pine-like
Vinyl Chloride	R,C	Ca [ND]	5 [OSHA, 15-min]	-	1	1	Ca	9.99	-	3000	-	Pleasant odor at high concs.
Xylenes	R,A,I,C	900	-	150 [NIOSH, ACGIH]	100	100	100	8.56 (m- and o-) 8.44 (p-)	111/116	1.1	E.N.T. 200	Aromatic

TABLE 1
OCCUPATIONAL EXPOSURE LIMITS (CONCENTRATIONS IN AIR)

(CIRCLE CONTAMINANTS OF CONCERN, WRITE ADDITIONAL CONTAMINANTS AND EXPOSURE ON LAST PAGE)

CHEMICAL	ROUTES OF EXPOSURE	IDLH	Ceiling	STEL	PEL	TLV	REL	PID (IP eV)	FID	ODOR THRES-HOLD	IRRITATION THRESHOLD	ODOR DESCRIPTION
DUSTS, MISTS, FUMES, AND MISCELLANEOUS COMPOUNDS												
Asbestos	R	Ca (ND)	-	-	0.1 fiber/cc	0.1 fiber/cc	0.1 fiber/cc	-	-	-	-	-
PCBs-42% Chlorine	R,A,I,C	Ca [5 mg/m^3]	-	-	1 mg/m^3 (skin)	1 mg/m^3 (skin)	0.001 mg/m^3	-	-	-	-	Mild, hydrocarbon
PCBs-54% Chlorine	R,A,I,C	Ca [5 mg/m^3]	-	-	0.5 mg/m^3 (skin)	0.5 mg/m^3 (skin)	0.001 mg/m^3	-	-	-	-	Mild, hydrocarbon
Aluminum - metal dust	R,C	ND	-	-	15 mg/m^3 (total); 5 mg/m^3 (respirable)	10 mg/m^3	10 mg/m^3 (total); 5 mg/m^3 (respirable)	-	-	-	-	-
Aluminum - soluble salts	R,I,C	ND	-	-	2 mg/m^3	2 mg/m^3	2 mg/m^3	-	-	-	-	-
Arsenic- inorganic	R,A,I,C	Ca [5 mg/m^3]	0.002 mg/m^3 (NIOSH, 15-min)	-	0.01 mg/m^3	0.01 mg/m^3	Ca	-	-	-	-	-
Barium:soluble compounds	R,I,C	50 mg/m^3	-	-	0.5 mg/m^3	0.5 mg/m^3	0.5 mg/m^3	-	-	-	-	-
Beryllium	R,C	Ca [4 mg/m^3]	0.005 mg/m^3 (OSHA); 0.025 mg/m^3 (OSHA, 30-min max peak); 0.0005 mg/m^3	0.01 mg/m^3 (ACGIH)	0.002 mg/m^3	0.002 mg/m^3	Ca	-	-	-	-	-
Cadmium dusts	R,I	Ca [9 mg/m^3]	-	-	0.005 mg/m^3	0.01 mg/m^3	Ca	-	-	-	-	-
Chromates (Cr(VI) Compounds) & Chromic Acid	R,I,C	Ca [15 mg/m^3]	0.1 mg/m^3 (OSHA)	-	0.001 mg/m^3	0.05 mg/m^3 (water soluble); 0.01 mg/m^3 (insoluble)	Ca	-	-	-	-	-
Chromium (III) Compounds	R,I,C	25 mg/m^3	-	-	0.5 mg/m^3	0.5 mg/m^3	0.5 mg/m^3	-	-	-	-	-
Chromium Metal	R,I,C	250 mg/m^3	-	-	1 mg/m^3	0.5 mg/m^3	0.5 mg/m^3	-	-	-	-	-
Copper - dust & mist	R,I,C	100 mg/m^3	-	-	1 mg/m^3	1 mg/m^3	1 mg/m^3	-	-	-	-	-
Lead	R,I,C	100 mg/m^3	-	-	0.050 mg/m^3	0.05 mg/m^3	0.050 mg/m^3	-	-	-	-	-
Manganese (compounds and fume)	R,I	500 mg/m^3	5 mg/m^3 (OSHA)	3 mg/m^3 (NIOSH)	-	0.2 mg/m^3	1 mg/m^3	-	-	-	-	-
Mercury & Inorganic Mercury Compounds	R,I,A,C	10 mg/m^3	0.1 mg/m^3 (NIOSH, Skin); 0.1 mg/m^3 (OSHA)	-	-	0.025 mg/m^3	0.05 mg/m^3 (skin)	-	-	-	-	-
Organo-Mercury Compounds	R,A,I,C	2 mg/m^3	0.04 mg/m^3 (OSHA)	0.03 mg/m^3 (NIOSH)	0.01 mg/m^3	0.01 mg/m^3 (alkyl); 0.1 mg/m^3 (aryl)	0.01 mg/m^3	-	-	-	-	-
Nickel (metal and compounds)	R,I,C	Ca [10 mg/m^3]	-	-	1 mg/m^3	1.5 mg/m^3 (metal); 1 mg/m^3 (soluble inorganic compounds); 1 mg/m^3 (insoluble	0.015 mg/m^3	-	-	-	-	-
Particulate (Not otherwise regulated)	R, C	ND	-	-	15 mg/m^3 (total); 5 mg/m^3 (respirable)	10 mg/m^3 (inhalable); 3 mg/m^3 (respirable)	-	-	-	-	-	-
Portland cement	R,I,C	5000 mg/m^3	-	-	50 mppcf	10 mg/m^3	10 mg/m^3 (total); 5 mg/m^3 (respirable)	-	-	-	-	-
Selenium compounds	R,I,C	1 mg/m^3	-	-	0.2 mg/m^3	0.2 mg/m^3	0.2 mg/m^3	-	-	-	-	-
Silica, crystalline	R, C	Ca [25 mg/m^3 (cristobalite, tridymite); 50 mg/m^3 (quartz, tripoli)]	-	-	Dependent on silicon dioxide content of silica (see Appendix C of the NIOSH Pocket Guide to Chemical Hazards, 2005)	Dependent on minerology (see ACGIH 2005 TLVs and BEIs Handbook)	0.05 mg/m^3	-	-	-	-	-
Silver (metal and soluble compounds)	R,I,C	10 mg/m^3	-	-	0.01 mg/m^3	0.1 mg/m^3	0.01 mg/m^3	-	-	-	-	-
Thallium, soluble	R,A,I,C	15 mg/m^3	-	-	0.1 mg/m^3 (skin)	0.1 mg/m^3 (skin)	0.1 mg/m^3 (skin)	-	-	-	-	-
Tin (metal)	R,C	100 mg/m^3	-	-	2 mg/m^3	2	2 mg/m^3	-	-	-	-	-
Tin (organic compounds)	R,A,I,C	25 mg/m^3	-	-	0.1 mg/m^3	0.1 mg/m^3 (skin)	0.1 mg/m^3 (skin)	-	-	-	-	-
Zinc oxide dust & fume	R	500 mg/m^3	15 mg/m^3 (NIOSH, dust)	10 mg/m^3 (NIOSH, ACGIH, fume)	15 mg/m^3 (total dust), 5 mg/m^3 (respirable dust); 5 mg/m^3 (fume)	2 mg/m^3 (respirable)	5 mg/m^3 (total dust), 5 mg/m^3 (fume)	-	-	-	-	-

NOTES & ABBREVIATIONS:

All units in parts per million (ppm) unless otherwise noted.
R = Respiratory (Inhalation)
I = Ingestion
A = Skin Absorption
C = Skin Contact
-: Not available
ND: Not detectable.
Ca = Carcinogen
** = Use 11.7 eV lamp
IP: Ionization potential
eV: Electrovolts

IDLH: Immediately dangerous to life and health
Ceiling: Highest allowable instantaneous C = Skin and/or Eye Contact
STEL: Short-term exposure limit. Exposure period is 15 minutes unless otherwise indicated
PEL: OSHA Permissible Exposure Limit (legally-enforceable)
REL: NIOSH Recommended Exposure Limit
PID: Photoionization Detector
OSHA: United States Occupational Safety and Health Administration
NIOSH: National Institute of Occupational Safety and Health
TLV: ACGIH Threshold Limit Value
ACGIH: American Conference of Governmental Industrial Hygienists

Physical Hazards:

Indicate all hazards that may be present for each task. If any of these potential hazards are checked, it is the project manager's responsibility to determine how to eliminate/minimize the hazard to protect onsite personnel.

Copy and paste a checkmark "✓"into appropriate boxes.

Physical Hazard Checklist				
Potential Job Hazards	**Task 1** GW Mon.	**Task 2** Exc. Mon.	**Task 3** Well Repair	**Task 4** SVI Sampling
Confined space entry*				
Underground utilities		✓	✓	
Overhead utilities		✓	✓	
Electrical hazards		✓		
Excavations greater than 4' depth		✓		
Open excavation fall hazards		✓		
Heavy equipment		✓		✓
Drilling hazards			✓	✓
Noise (above 85 dBA)		✓	✓	✓
Traffic concerns	✓	✓	✓	
Extreme weather conditions	✓	✓	✓	
Rough terrain for drilling equipment				
Buried drums				
Heavy lifting (more than 50 lbs)	✓			
High risk fire hazard				
Poisonous insects or plants				
Water hazards				
Use of a boat				
Lockout/Tagout requirements				
Other: Chemical Exposure	✓	✓	✓	✓
Other: Unknown Building Occupants				✓

***CONFINED SPACE ENTRY REQUIRES SPECIAL PROCEDURES, PERMITS AND TRAINING AND MUST BE APPROVED BY THE CORPORATE HEALTH & SAFETY MANAGER.**

Potential Activity Hazards and Hazard Controls:

Copy and paste a checkmark "✓" adjacent to potential activity hazards and relevant hazard controls.

POTENTIAL ACTIVITY HAZARDS

Abrasions and Cuts ✓
Access
Asphyxiation
Bacteria
Biological Hazards
Bloodborne Pathogens
Cave Ins
Chemical/Thermal Burns
Chemicals✓
Cold Stress✓
Compressed Gases
Confined Spaces
Congestion
Defective Equipment
Dermatitis
Dropping Materials/Tools to Lower Levels
Drowning or Flowing Water
Electrical Shock
Energized Equipment
Equipment Misuse ✓
Ergonomics
Excavations ✓
Explosions
Fatigue
Fire
Flammability
Flying debris ✓
Foreign Body in Eye ✓
Frostbite/Cold ✓
Fueling and Fuel Storage ✓
Fugitive Dust ✓
Fumes ✓
Generated Wastes ✓
Guards removed
Hazardous Materials ✓
Heat Stress (cramps, exhaustion, stroke)
Heavy Equipment Operation ✓
Heavy Equipment/Stability ✓
Heavy Lifting ✓
High crime area (violence)
High Winds
Hoists, Rigging, Slings, Cables
Housekeeping – Improper ✓
Illumination - Poor
Impact ✓
Inability to Maintain Communication
Inclement Weather ✓
Inclines
Insects/Reptiles
Mold
Moving Equipment, Conveyors or Vehicles ✓
Muddy Site Conditions
New Personnel
Noise ✓
Odor ✓
Overhead Utilities ✓
Overhead Work ✓
Overloaded Equipment
Oxygen deficiency
Pinch Points ✓
Poisonous Plants
Pressure
Pressurized Lines
Radiation
Repetitive Motion ✓
Rigging - Improper ✓
Sharp Objects ✓
Silicosis
Slips, Trips, and Falls ✓
Sprains and Strains ✓
Steam
Sunburn ✓
Surface Water Run-off
Toxicity ✓
Traffic
Underground Utilities ✓
Uneven Terrain
Unsafe Atmosphere
Vibration
Visibility - Poor
Visitors Known/Unknown ✓
VOC Emissions ✓
Weight ✓
Work at Depth
Work at Heights
Work over Water
Working on Ice

HAZARD CONTROLS

Air Monitoring ✓
Appropriate Clothing/Monitoring Of Weather ✓
Appropriate Labels/Signage ✓
Barricades/Fencing/Silt Fencing ✓
Buddy System - Attendant
Chock Blocks ✓
Confined Space Procedures
Decontamination Procedures✓
Derived Waste Management Plan
Drinking Water/Fluids
Dust Abatement Measures ✓
Emergency Action Plan Procedures
Equipment Inspection
Equipment Manuals/Training✓
Exclusion/Work Zones ✓
Exhaust Ventilation ✓
Eye Protection ✓
Fall Protection
Fire Extinguisher ✓
Flotation Devices/Lifelines
Gloves ✓
Ground Fault Interrupter
Grounded Hydraulic Attachments
Grounded Equipment/Tanks
Hand Signal Communication
Hard Hat ✓
Hazardous/Flammable Material Storage
Hearing Protection ✓
High Visibility Safety Vest ✓
Hoses, Access to Water
Hotwork Procedures
Isolation of Energy Sources(Lockout/Tagout)
Machine/Equipment Guards
Manual Lifting Equipment
Police Detail
Proper Lifting Techniques ✓
Proper Tool for Job ✓
Proper Work Position/Tools
Protective Equipment ✓
Radio Communication
Respirator, (Specify Type)
Safety Harness /Lanyard/Scaffold
Security Escort
Sloping, Shoring, Trench Box
Spill Prevention Measures
Spill Kits
Stormwater Control
Traffic Controls Procedures/Methods
Vehicle Inspection
Visitor Orientation Escort✓
Window Cleaning/Defrost

Safety Meetings

All H&A personnel visiting the site will be given an orientation safety meeting and are required to read and sign this HASP. Daily safety meetings will be conducted onsite and documented on a Health & Safety Tailgate Meeting Form.

Utility Locators and Underground Hazards

Prior to drilling or excavating, Haley & Aldrich staff members will ensure that permission has been gained from the property owner to access the property. Contact site facilities personnel to assist with location of underground utilities. Before marking any proposed exploration location, it is critical that all readily available information on underground utilities and structures be obtained. The estimated location of utility installations, such as gas, electric, fuel, steam, sewer, telephone, fiber optic, water, drainage or any other underground installation that may be expected to be encountered during drilling work, will be identified with the appropriate authority. Appropriate authorities include client representatives, utility companies, nonprofit organizations (e.g., "Dig-Safe), and others.

Heavy Equipment

Staff Members must be especially careful and alert when working with contractors who use heavy equipment, since equipment failure or breakage can lead to accidents and worker injury. Cranes and equipment for drilling, pile driving, test pitting and coring is of special concern. Should these devices fail during operation the likelihood of worker injury is high. Equipment of this nature should be visually inspected and checked for proper working order prior to the commencement of field work. Those that operate heavy equipment must meet all of the requirements to operate heavy equipment. Haley & Aldrich, Inc. staff members that supervise projects or are associated with such high risk projects that involve digging should use due diligence when working with a construction firm. Maintain visual contact with operators at all times and keep out of the strike zone whenever possible. Always approach heavy equipment with an awareness of the swing radius and traffic routes of each piece of equipment and never go beneath a hoisted load. High-visibility safety vests must be worn onsite at all times. Avoid fumes created by heavy equipment exhaust.

Noise Reduction

Site activities in proximity to heavy equipment often expose workers to excessive noise. It is anticipated that situations may arise when noise levels may exceed the OSHA Action Level of 85 dBA in an 8-hour time-weighted average (TWA). An example of this possibility is working in close proximity to the subcontractor during drilling activities onsite. If excessive noise levels occur, efforts will be made to control this by issuance of earplugs to all personnel and by implementing a system of hand signals understood by all.

Work Site Access & Controls (Standard Precautions)

The work area is restricted to authorized personnel. Clearly define the work area before beginning activities for the day. Caution tape and safety cones must be provided as necessary for vehicular traffic concerns and to protect passers-by. Proper housekeeping is essential to avoid creating hazards to pedestrian and vehicular traffic. Excavations in progress will not be left unattended at any time. Running equipment will not be left unattended at any time. Test borings and test pits will be backfilled upon completion and the area restored. Drilling equipment will be secured above test borings during work stoppages and at the end of the workday.

Site Security

The site will be restricted by a locked chain-link fence.

Weather Related Hazards

H&A employees and their subcontractors should be aware of potential health effects and/or physical hazards of working during inclement weather. Refer to OP1003-Cold Stress and OP1015-Heat Stress for discussion on weather hazards.

5. PROTECTIVE MEASURES

Personal Protective Equipment Requirements:

Copy and paste a checkmark "✓"into appropriate boxes.

Required PPE	Task 1	Task 2	Task 3	Task 4
	GW Mon.	Exc. Mon.	Well Repair	SVI Sampling
Hard hat		✓	✓	
Safety glasses w/side shields	✓	✓	✓	✓
Steel-toe footwear		✓	✓	✓
Hearing protection (plugs, muffs)		✓	✓	✓
Tyvek ™ coveralls	✓			
PE-coated Tyvek™ coveralls				
Boots, chemical resistant	✓	✓	✓	
Boot covers, disposable				
Leather work gloves		✓	✓	✓
Inner gloves - Nitrile	✓	✓		
Outer gloves - Enter material here				
Tape all wrist/ankle interfaces				
Half-face respirator*				
Full-face respirator*				
Organic vapor cartridges				
Acid gas cartridges				
Other cartridges: Enter type here				
P-100 (HEPA) filters				
Face shield				
Personal Flotation Device (PFD)				
High-Visibility Safety Vest	✓	✓	✓	
Other:				
Level of protection required [C or D]:	D	D	D	D

* In the event of respirator use, H&A staff must be medically qualified, fit tested and clean shaven with no facial hair that will interfere with the seal.

The required PPE checked in any box above must be on site during the task being performed. Work shall not commence unless the required PPE is present.

Site Safety Equipment Requirements:

Check all items that are required to be on site.

Site Safety Equipment

☐ Fire Extinguisher	☑ First Aid Kit	☐ Flashlight
☐ Air horn/signaling device	☑ Cellular Phone	☐ Duct tape
☐ Ladder	☐ Barricade tape	☐ Drum dolly
☐ Two-way radio	☑ Safety cones	☐ Harness/Lanyard
☐ Other Specify		

The required equipment checked in any box above must be on site during the task being performed. Work shall not commence unless the equipment is present.

6. MONITORING PLAN AND EQUIPMENT

Is air/exposure monitoring required at this work site for personal protection? ☑ Y ☐ N

Is perimeter monitoring required for community protection? ☑ Y ☐ N

(for excavation monitoring only)

Monitoring/Screening Equipment Requirements:

Check all items that are required to be on site.

Required Monitoring/Screening Equipment

☑ Photo-Ionization Detector (PID)

☐ Photo-Ionization Detector (PID)

☐ Photovac Micro Tip (PID)

☐ Organic Vapor Monitor

☐ Photovac Gas Chromatagraph (GC)

☐ Combustible Gas Indicator (CGI)

☐ Multiple Gas Detector

☑ Dust Monitors (RAMs) *(for excavation monitoring only)*

☐ Colorimetric tubes

☑ Other PPB Meter *(for SVI Sampling only)*

The required equipment checked in any box above must be on site. Work shall not commence unless the equipment is present.

Standard Action Levels and Required Responses:

Exposure Guidelines for common contaminants are listed in Table 1 - Occupational Exposure Limits in the Chemical Hazards section above.

Requirements for PPE upgrades based on monitoring are in Table 2 - Monitoring Methods, Action Levels and Protective Measures following the Specific Monitoring Requirements section below.

Action levels for readings obtained with a multiple gas detector are listed below.

Instrument	Normal	Operating levels	Action levels – required responses
Oxygen Meter	20.9%	Between 19.5-23.5%	Below 19.5 %: leave area, requires supplied air Above 23.5%: leave area, fire hazard
CGI	0%	Less than 10%	Greater than 10%: fire/explosion hazard; cease work
Hydrogen Sulfide	0%	Less than 10 ppm.	Greater than 15 ppm (or 10 ppm for 8 hrs) requires supplied air respirator

Carbon Monoxide	0%	Less than 25 ppm	Greater than 200 ppm for 1 hour (or 25 ppm for 8 hrs) requires supplied air respirator

Standard Air Monitoring Plan (Volatiles):

- Prior to the beginning of work obtain background readings with the PID away from the site.
- Monitor the breathing zone when site soil is exposed (e.g., while drilling or excavating is occurring, etc.) with the PID.
- Monitoring should be conducted most frequently (e.g., every 15-30 minutes) when drilling or excavation first begins in a particular area and when soil is removed from the hole. After this, and if no exceedances of exposure limits are noted (see below), monitoring may be conducted less frequently (e.g., every 60 minutes).
- H&A general exposure limits will be used when a mixture of potentially volatile chemicals are suspected to be present in soil at the site.

In summary, if a reading of 10 ppm above background is detected with the PID for 5 minutes or longer, back away for a few minutes. Screen the air again after any vapors/gases have been given a chance to dissipate. If 10 ppm above background is still noted, evacuate the area and call the LHSC and PM for further guidance.

- Record monitoring data and PPE upgrades in field book or on Record of Field Monitoring form and maintain with project files.

- Air monitoring for exposure should be based on the frequency established under the Standard Air Monitoring Plan or under the Specific Monitoring Requirements. Record time, location and results of monitoring and actions taken based upon the readings.

Standard Dust Control Measures and Monitoring Plan:

Dust Control Measures:

It is anticipated that exposure to airborne dust can be mitigated during work operations as necessary to control dust emissions by means of limiting the area of exposed soils and through the use of water sprays. If dust emissions cannot be controlled by these standard measures, additional measures may be employed such as the use of a tackifier (if approved) to stabilize soil exposures or by covering exposed soil and stockpiles with tarpaulins, plastic sheeting or geotextile fabric. Otherwise cease work immediately and contact the Project Manager or the Corporate Health & Safety Manager for assistance. It is not permissible for dust emissions to escape from the site at any time and perimeter dust monitoring may be required to insure public safety.

Dust Monitoring:

Respirable Aerosol Monitors (RAM) can be used to monitor total dust levels in work zones and/or at the site perimeter. These instruments do not give specific readings of contaminant concentration (e.g. metals, asbestos, etc.). Depending upon the contaminants present, it may be mandatory for all workers to upgrade to level C protection using a half-face air-purifying respirator with HEPA (P-100) filters if dust levels cannot be adequately controlled during any of the on-site tasks. The H&A Site Safety Officer (SSO) will determine PPE upgrades based upon visual determination as necessary and the OSHA PEL for each known or suspected contaminant. The OSHA PEL/STEL for Respirable Nuisance Dust is 5 mg/m^3 (8 hour TWA). Action levels for fugitive dust at the site perimeter are based upon the daily PM_{10} dust standard of 0.15 mg/m^3 in the National Ambient Air Quality Standard for Inhalable Dust (NAAQS).

Personal dust monitoring using an industrial hygiene pump and a filter cassette may be conducted on each day of operations. In such cases samples are collected from workers with the greatest potential dust exposure and analyzed by an accredited laboratory for specific contaminants.

Specific Monitoring Requirements:

Monitoring requirements and frequency is indicated by task and location below.

<u>VOC Monitoring</u>:
Applicable tasks: # 1
Frequency: Screen work area prior to groundwater sampling once well is open.
Description: Air will be screened using a PID (Mini Rae 2000) for the presence of volatiles

<u>VOC Monitoring</u>:
Applicable tasks: #2 and # 3
Frequency: Continuously in worker breathing space when soil is disturbed.
Description: In the event that soil excavation occurs, the soils will be screened using a PID (Mini Rae 2000) for the presence of volatiles

<u>VOC Monitoring</u>:
Applicable tasks: #4
Frequency: Screen basement area for sources of air impacts prior to sampling and during installation of sub-slab vapor points.
Description: Air will be screened using a PID that registers in the ppb range for the presence of volatiles

<u>Community Particulate and VOC Monitoring:</u>
Applicable tasks: # 2
Frequency: 1 reading every 15 minutes from each monitoring station.
Description: In accordance with NYSDOH generic CAMP guidance for both VOCs and particulates. Refer to the site-specific Community Air Monitoring Program

TABLE 2
Last Revised September 2002

MONITORING METHOD, ACTION LEVELS AND PROTECTIVE MEASURES

INSTRUMENT	HAZARD	ACTION LEVEL	ACTION RESPONSE
Respirable Dust Monitor	Total Particulates	> 5 mg/m^3	Upgrade to Level C Protection
OVA, HNU[2], Photovac Microtip	Total Organic Vapors	Background	Level D Protection
		10 ppm > background or lowest OSHA permissible exposure limit, whichever is lower, or as modified for this task. Sustained for >5 minutes in the breathing zone.	Upgrade to Level C - site evacuation may be necessary for specific compounds
		50 ppm over background, unless lower values required due to respirator protection factors	Cease work; upgrade to Level B[3] may be required
Explosimeter[4] (LEL)	Flammable/Explosive Atmosphere	<10% Scale Reading	Proceed with work
		10-15% Scale Reading	Monitor with extreme caution
		>15% Scale Reading	Evacuate site
Oxygen Meter[5]	Oxygen-Deficient Atmosphere	19.5% - 23.5% 0_2	Normal - Continue work
		< 19.5% 0_2	Evacuate site; oxygen deficient
		> 23.5% 0_2	Evacuate site; fire hazard
Radiation Meter[6]	Ionizing Radiation	0.1 Millirem/Hour	If > 0.1, radiation sources may be present[7]
		> 1 Millirem/Hour	Evacuate site; radiation hazard
Drager Tubes	Vapors/Gases	Species Dependent > 1 ppm vinyl chloride > 1 ppm benzene > 1 ppm 1,1-DCE	Consult Table 1 or other resources for concentration toxicity/detection data. Upgrade to Level C if concentration of compounds exceed thresholds shown at left; May need to cease work if other levels exceeded - site specific
Gas Chromatograph (GC)	Organic Vapors	3 ppm total OV > background or > lowest specific OSHA permissible exposure limit, whichever is lower	On-site monitoring or tedlar bag sample collection for off-site/laboratory analysis

Notes:
1. Monitor breathing zone.
2. Can also be used to monitor some inorganic species.
3. Positive pressure demand self contained breathing apparatus
4. Lower explosive limit (LEL) scale is 0-100%. LEL for most gasses is 15%.
5. Normal atmospheric oxygen concentration at sea level is 20%
6. Background gamma radiation is ~0.01-0.02 millirems/hour.
7. Contact H&A Health and Safety staff immediately.

Calibration and Use of Equipment:

Calibrate all monitoring equipment in accordance with manufacturers requirements, H&A calibration (OP) standards and site specific requirements (e.g., at the beginning and end of each work day). Calibration of equipment shall be documented in the field notes or Daily Field Report (DFR). Documentation should include:

- Date/time
- Zero reading before calibration
- Concentration of calibration gas
- Reading obtained with calibration gas before adjusting span\
- Final reading obtained with calibration gas after adjusting span

7. DECONTAMINATION AND DISPOSAL METHODS

Personal Hygiene Safeguards:

The following minimum personal hygiene safeguards shall be adhered to:

- No smoking or tobacco products on any Hazwoper project.
- No eating or drinking in the exclusion zone.
- It is required that personnel present on site wash hands before eating, smoking, taking medication, chewing gum/tobacco, using the restroom, or applying cosmetics and before leaving the site for the day.
- It is recommended that personnel present on site shower or bathe at home at the end of each day of working on the site.

Standard Personal Decontamination Procedures:

Outer gloves and boots should be decontaminated periodically as necessary and at the end of the day. Brush off solids with a hard brush and clean with soap and water or other appropriate cleaner whenever possible. Remove inner gloves carefully by turning them inside out during removal. Wash hands and forearms frequently. It is good practice to wear work-designated clothing while on-site which can be removed as soon as possible. Non-disposable overalls and outer work clothing should be bagged onsite prior to laundering. If gross contamination is encountered on-site contact the Project Manager and LHSC to discuss proper decontamination procedures. The steps required for decontamination will depend upon the degree and type of contamination but will generally follow the sequence below.

1. Remove and wipe clean hard hat
2. Rinse boots and gloves of gross contamination
3. Scrub boots and gloves clean
4. Rinse boots and gloves
5. Remove outer boots
6. Remove outer gloves
7. Remove Tyvek coverall
8. Remove respirator, wipe clean and store
9. Remove inner gloves

Location of Decontamination Station:

N/A

Disposal of PPE:

PPE that is not grossly contaminated can be bagged and disposed in regular trash receptacles. PPE that is grossly contaminated must be bagged (sealed) and field personnel should communicate with the Project Manager to determine proper disposal.

Tools & Equipment Decontamination:

All decontamination should be conducted at the site and not at the office or lab.

Check all equipment and materials needed for decontamination of tools and other equipment.

- [ ] Acetone
- [x] Alconox soap
- [x] Brushes
- [x] Disposal bags
- [x] 5 gallon pails
- [x] Distilled water
- [x] Drums for water
- [ ] Hexane
- [ ] Methanol
- [x] Other Paper towels
- [ ] Poly sheeting
- [ ] Steam cleaner
- [ ] Tap water
- [ ] Washtubs

Standard Equipment Decontamination Procedures:

Air monitoring instrumentation and delicate instruments that are difficult to decontaminate or sensitive to water should be protected from contamination during use through the use of plastic sheeting. To the extent possible, efforts should be taken to limit the degree of contamination to hand tools and sampling equipment during use. Proper PPE must be worn while performing decontamination, including the wearing of chemical safety goggles and gloves. Storage or transport of decontamination solvents in squirt bottles is not permitted as they may discharge their contents upon ambient temperature change or leak if overturned. Standard equipment decontamination procedures are as follows. Any additional requirements are listed under Specific Equipment Decontamination Procedures below.

Pretreatment of heavily contaminated equipment may be conducted as necessary:

1. Remove gross contamination using a brush or wiping with a paper towel
2. Soak in a solution of Alconox and water (if possible)
3. Wipe off excess contamination with a paper towel
4. Clean with hexane or acetone and allow to dry

Standard decontamination procedure:

1. Wash using a solution of Alconox and water
2. Rinse with potable water
3. Rinse with methanol
4. Rinse with distilled water

Specific Equipment Decontamination Procedures:

1. Wash using a solution of Alconox and water
2. Rinse with potable water
3. Dispose of dedicated sampling equipment in drums

Standard Disposal Methods for Contaminated Materials:

Excess sample solids, decontamination materials, rags, brushes, poly sheeting, etc. that are determined to be free of contamination through field screening can usually be disposed into client-approved, on-site trash receptacles. Uncontaminated wash water may be discarded onto the ground surface away from surface water bodies in areas where infiltration can occur. Contaminated materials must be segregated into liquids or solids and drummed separately for off site disposal. Any additional requirements are listed under Specific Disposal Methods for Contaminated Materials below.

Specific Disposal Methods for Contaminated Materials:

If onsite trash receptacles are not available, excess sample solids, decontamination materials, rags, brushes, poly sheeting, etc. that are determined to be free of contamination through field screening will be disposed of in drums staged onsite for future disposal.

Disposal Methods for Contaminated Soils:

Contaminated soil cuttings and spoils must be drummed for disposal off-site unless otherwise specifically directed. Soil cuttings and spoils determined to be free of contamination through field screening can usually be returned to the boreholes or excavations from which they came. Any additional requirements are listed under Specific Disposal Methods for Contaminated Soils below.

Specific Disposal Methods for Contaminated Soils:

Large quantities of soils removed for excavation purposes will be staged on and beneath poly-sheeting prior to characterization and offsite disposal.

8. CONTINGENCY PLANNING

How H&A responds to an emergency depends on whether we are at an active facility or another other location. Many active facilities have very stringent requirements for the mitigation of emergencies. Therefore, the PM is responsible for identifying any specific requirements from the client contact.

As a rule of thumb, the following are H&A's basic responses to handling Emergencies. Typically, H&A does not mitigate emergencies. When Clients request or require specific functions such as First Aid/CPR trained personnel on site, we typically conform. Before any Project Manager or LHSC agrees to something more stringent, many issues should be considered such as training, safety, feasibility of an adequate response, insurance requirements, and much more.

Fire:

- Major Fires - Major fires will be mitigated by the local fire departments or by client's on-site fire/emergency response departments.
- Incipient Stage Fires -Incipient stage fires will be extinguished by on-site personnel using fire extinguishers. Only those who have received annual training may use an extinguisher.

Medical:

All H&A employee injuries and illnesses will be reported to the PM and to HP at hpinjuryreporting@haleyaldrich.com and documented using the Incident Reporting Form. This form is available on HANK.

- First Aid - First aid will be addressed using the on-site first aid kit. H&A employees are not required or expected to administer first aid/CPR to any H&A, Contractor, or Civilian personnel at any time and it is H&A's position that those who do are doing it on their behalf and not as a function of their job.
- Trauma - Based upon the nature of the injury, the injured party may be transported to the nearest hospital or emergency clinic by on-site personnel or by ambulance. First response to a trauma incident is to call 911 or facility security. H&A staff members are expected to assist in ancillary roles only such as directing ambulances to the scene. It is the discretion of the staff member on site whether an ambulance should be procured in remote locations where ambulance services will not be effective.

Hazardous Materials Spill:

- Small incidental spills (e.g. pint of motor oil) caused by H&A employees and/or by the contractor will be mitigated by the H&A staff member and/or the contractor.
- Large spills (e.g. large leak from heavy equipment fuel tank). The contractor is responsible for cleanup. In the event that it posses a serious human or environmental threat, the local Fire Department and/or client emergency response department will be contacted. Once emergency has been mitigated typically clean up will be provided by a vendor.

Rescue:

H&A employees will not enter any confined spaces for rescue purposes.

Weather Related Emergencies:

H&A employees and their subcontractors should be aware of potential health effects and/or physical hazards of working during inclement weather. If applicable, safeguards against the effects and hazards of heat stress, cold stress, frostbite, thunderstorms, and lightning, etc., should be included with the section pertaining to physical hazards in this HASP.

Evacuation Alarms:

Evacuation alarms and/or emergency information will be communicated among personnel on site through verbal communication.

Emergency Services:

Emergency services will be summoned via on-site or cellular phone.

Emergency Evacuation Plan:

The site evacuation plan is as follows:

1. Establish a designated meeting area to conduct a head count in the event of an emergency evacuation.
2. If the work area is not near an emergency exit, exit via the closest route and meet at the designated meeting area.
3. Notify emergency response personnel (fire, police and ambulance) of the number of missing or unaccounted for employees and their suspected location.
4. Administer first aid will in the meeting area as necessary.

Under no circumstances should any personnel re-enter the site area without the approval of the corporate H&S manager, the H&S coordinator, and the fire department official in charge.

9. HEALTH & SAFETY PLAN ACKNOWEDGMENT FORM

Note: Only H&A employees sign this page.

I hereby acknowledge receipt and briefing on this Health & Safety Plan prior to the start of on-site work and declare that I understand and agree to follow the provisions and procedures set forth herein while working on this site.

PRINTED NAME	SIGNATURE	DATE

10. PRE-JOB SAFETY CHECKLIST

The following checklist is designed to help Project Managers verify that all Health & Safety requirements are satisfied for projects involving site work and to aid in the preparation of the site-specific HASP.

Please initial and date the appropriate box once each requirement has been satisfied prior to commencement of site work.

#	Project H&S Requirements	Approval by PM or LHSC (Initial each box or place NA)	Date Approved
1	Project site history has been researched and summarized, current site conditions have been determined and documentation of previous investigations, risk analyses and chemical data has been assembled and summarized.		
2	Project work scope has been outlined and potential chemical and physical hazards associated with work tasks have been identified.		
3	Task Safety Analysis has been performed and attached to the HASP.		
4	H&A personnel to be involved with the project have been identified and are current with medical surveillance, OSHA 40 hour and 8 hour refresher training. Hazwoper site supervisor requirements are satisfied.		
5	Additional training requirements have been met: e.g. nuclear density gauge, DOT, Confined Space Entry, Competent Person Training for Excavation, OSHA 10 hour certification, Railway Safety Training, etc.		
6	H&A personnel that may be required to wear a respirator are medically qualified and have current certification of fit testing.		
7	Client's additional H&S requirements have been met: e.g. facility safety orientations, safety documentation, meetings, special PPE requirements		
8	H&A subcontractors have met H&A's minimum requirements including: current OSHA 40 hour training, medical surveillance, written HASP, insurance, SDSs.		
9	SDSs are on site and available for chemicals on site.		
10	Safety equipment is available: e.g. flashlight, telephone, ladders, traffic cones, barricade tape, fire extinguisher, first aid kit, PPE, respiratory protection, air and dust monitoring instrumentation (calibrated), personal flotation device (PFD), 90' life line with ring, decontamination equipment, etc.		
11	HASP and supporting documentation is complete and signed by all members.		

APPENDIX A
HASP Amendment Form

This Appendix is to be used whenever there is an immediate change in the project scope that would require an amendment to the HASP. For project scope changes associated with "add-on" tasks, the changes must be made in the body of the HASP. Before changes can be made, a review of the potential hazards must be initiated by the H&A Project Manager.

Amendment No.	
Site Name:	
Work Assignment No.:	
Date:	
Type of Amendment:	
Reason for Amendment:	
Alternate Safeguard Procedures:	
Required Changes in PPE:	

Project Manager Signature: ______________________________ Date: ________________

Local Health and Safety Coordinator: ______________________ Date: ________________

This original form must remain on site with the original HASP. If additional HASPs are in the field, it is the Project Manager's responsibility to forward a signed copy of this amendment to those who have copies.

APPENDIX B
Issuance and Compliance
Site Safety Officer Role and Responsibilities
Training Requirements

This Health & Safety Plan (HASP) has been prepared in accordance with the requirements of Title 29 the Code of Federal Regulations (CFR) Section 1910.120/1926.65 to provide guidance for the protection of onsite personnel from physical harm and chemical exposure while working at the subject site.

The specific requirements of this HASP include precautions for hazards that exist during this project and may be revised as new information is received or as site conditions change.

- This HASP must be signed by all Haley & Aldrich (H&A) staff members who will work on the project, including H&A visitors. By signing the Health and Safety Plan Acknowledgement Form personnel are acknowledging that they are aware of the specific hazards of the site and agree to follow the provisions and procedures required to safeguard themselves and others from those hazards.
- This HASP or a current signed copy must be retained at the site at all times when H&A staff members are present.
- Deviations from this HASP are not permitted without prior approval from the above signed. Unauthorized deviations may constitute a violation of H&A company procedures/policies and may result in disciplinary action.
- Revisions to this HASP must be outlined within the contents of the HASP. If immediate or minor changes are necessary, the LHSC and H&A Project Manager may use Appendix A (HASP Amendment Form), located in the back of this HASP. Any revision to the HASP requires personnel to be informed of the changes and that they understand the requirements of the change.
- This HASP is not for H&A Subcontractor use. Each subcontractor engaged is responsible for all matters relating to the health and safety of their personnel and the safe operation of their equipment. This HASP will be made available as a reference so that subcontractors are informed of the potential hazards associated with the site to the extent we are aware. Subcontractors must develop their own HASP which must be, at a minimum, at least as protective as this HASP.
- This Site Specific HASP provides only site-specific descriptions and work procedures. General safety and health compliance programs in support of this HASP (e.g., injury reporting, medical surveillance, personal protective equipment (PPE) selection, etc. are described in detail in the H&A Corporate Health and Safety Program Manual and within Standard Operating Procedures (OPs). Both the manual and OPs can be located on the Company Intranet. When appropriate, users of this HASP should always refer to these resources and incorporate to the extent possible. The manual and OPs are available to clients and regulators per request.

Site Safety Officer:

The site safety officer (SSO) is defined as the individual responsible to the employer with the authority and knowledge necessary to implement the HASP and verify compliance with applicable health and safety requirements.

The H&A Project Manager may designate any person as the site safety officer (SSO) and determines the order of authority on site. Usually the highest ranking person on site is the SSO. A site safety officer must be on site at all times. When none of the designated SSOs are present on site, the senior person for H&A on site will default to the SSO. This project has identified the following hierarchy for SSO.

1. ______________________________

2. ______________________________

Site Safety Officer Roles and Responsibilities:

The SSO is responsible for field implementation of this HASP and enforcement of safety rules and regulations. SSO functions include:

- Act as H&A's liaison for health and safety issues with client, staff, subcontractors, and agencies.
- Verify that utility clearance has been performed by H&A subcontractors.
- Oversee day-to-day implementation of the HASP by H&A employees on site.
- Interact with subcontractor project personnel on health and safety matters.
- Verify use of required PPE as outlined in the HASP.
- Inspect and maintain H&A safety equipment, including calibration of air monitoring instrumentation used by H&A.
- Perform changes to HASP and document in Appendix A of the HASP as needed and notify appropriate persons of changes.
- Investigate and report on-site accidents and incidents involving H&A and its subcontractors.
- Verify that site personnel are familiar with site safety requirements (e.g., the hospital route and emergency contact numbers).
- Report accidents, injuries, and near misses to the H&A PM and Local Health and Safety Coordinator (LHSC) as needed.

The SSO will conduct initial site safety orientations with site personnel (including subcontractors) and conduct toolbox and safety meetings thereafter with H&A employees and H&A subcontractors at regular intervals and in accordance with H&A policy and contractual obligations. The SSO will track the attendance of site personnel at H&A orientations, toolbox talks, and safety meetings. Subcontractors will document training and provide training rosters to the H&A SSO.

The SSO will report accidents such as injury, overexposure, or property damage to the Local Health and Safety Coordinator, to the Project Manager, and to the safety managers of other on-site consultants and contractors. The SSO will consult with the safety managers of other on-site consultants and subcontractors on specific health and safety issues arising over the course of the project, as needed.

Health and Safety Training Requirements:

Personnel will not be permitted to supervise or participate in field activities until they have been trained to a level required by their job function and responsibility. H&A staff members, contractors, subcontractors, and consultants who have the potential to be exposed to contaminated materials or physical hazards must complete the training described in the following sections.

The H&A Project Manager/LHSC will be responsible for maintaining and providing to the client/site manager documentation of H&A staff members' compliance with required training as requested. Records shall be maintained per OSHA requirements.

40-Hour Health and Safety Training

The 40-Hour Health and Safety Training course provides instruction on the nature of hazardous waste work, protective measures, proper use of personal protective equipment, recognition of signs and symptoms which might indicate exposure to hazardous substances, and decontamination procedures. It is required for all personnel working on-site, such as equipment operators, general laborers, and supervisors, who may be potentially exposed to hazardous substances, health hazards, or safety hazards consistent with 29 CFR 1910.120.

8-hour Annual Refresher Training

Personnel who complete the 40-hour health and safety training are subsequently required to attend an annual 8-hour refresher course to remain current in their training. When required, site personnel must be able to show proof of completion (i.e., certification) at an 8-hr refresher training course within the past 12 months.

8-Hour Supervisor Training

On-site managers and supervisors directly responsible for, or who supervise staff members engaged in hazardous waste operations, should have eight additional hours of Supervisor training in accordance with 29 CFR 1910.120. Supervisor Training includes, but is not limited to, accident reporting/investigation, regulatory compliance, work practice observations, auditing, and emergency response procedures.

Additional Training for Specific Projects

H&A personnel will ensure their personnel have received additional training on specific instrumentation, equipment, confined space entry, construction hazards, etc., as necessary to perform their duties. This specialized training will be provided to personnel before engaging in the specific work activities including:

- Client specific training or orientation
- Competent person excavations
- Confined space entry (entrant, supervisor, and attendant)
- Heavy equipment including aerial lifts and forklifts
- First aid/ CPR
- Use of fall protection
- Use of nuclear density gauges
- Asbestos awareness

APPENDIX D –

GENERIC COMMUNITY AIR MONITORING PLAN

New York State Department of Health
Generic Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for volatile organic compounds (VOCs) and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate NYSDEC/NYSDOH staff.

Continuous monitoring will be required for all <u>ground intrusive</u> activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a **continuous** basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored **continuously** at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

All readings must be recorded and be available for State (DEC and DOH) personnel to review.

June 20, 2000

P:\Bureau\Common\CommunityAirMonitoringPlan (CAMP)\GCAMPR1.DOC

APPENDIX E –

MONITORING WELL CONSTRUCTION LOGS

Appendix E - Monitoring Information and Historical Water Levels
Former American Linen Supply Co Facility
Buffalo, New York
BCP Site #C915241

	Well Information (Pre-Soil Removal IRM)				Well Information (Post-Soil Removal IRM)				Well Information (Post-Remedial Action)				June 2016 Survey			June 2021 Survey	
Well ID	*Ground Surface Elevation*	*Casing Elevation*	*Riser Elevation*	*Well Screen*	*Ground Surface Elevation*	*Casing Elevation*	*Riser Elevation*	*Well Screen*	*Ground Surface Elevation*	*Casing Elevation*	*Riser Elevation*	*Well Screen*	*Casing Elevation*	*Riser Elevation*	*Well Screen*	*Riser Elevation*	*Well Screen*
MW-101	585.5	585.63	585.27	13.2 to 18.2 ft.	585.5	585.49	585.22	13.2 to 18.2 ft.	585.5	585.5	585.3	13.2 to 18.2 ft.	--	--	--	Decommissioned; Removed from program June 2020	
MW-102	582.4	582.56	582.11	11.9 to 16.9 ft.	Destroyed (Replaced with MW-102R)				Destroyed (Replaced with MW-102R)				Destroyed (Replaced with MW-102R)			Destroyed (Replaced with MW-102R)	
MW-102R	N/A	N/A	N/A	N/A	585.3	585.27	585.3	12 to 17 ft.	582.6	585.3	585.37	9.7 to 14.7 ft.	--	--	--	582.13	6.5 to 11.5 ft.
MW-103	586.7	588.78	588.84	14.6 to 19.6 ft.	583	586.48	586.36	10.9 to 15.9 ft.	583.3	585.6	586.54	11.2 to 16.2 ft.	583.2	582.64	7.3 to 12.3 ft.	--	--
MW-104	582.4	585.17	585.17	11.3 to 16.3 ft.	582.4	585.12	585.13	11.3 to 16.3 ft.	582.4	585.1	585.22	11.3 to 16.3 ft.	582.4	582.00	8.1 to 13.1 ft.	--	--
MW-105	582	584.68	584.68	10.6 to 15.6 ft.	582	584.68	584.68	10.6 to 15.6 ft.	582.9	584.7	584.7	11.5 to 16.5 ft.	582.8	582.41	9.2 to 14.2 ft.	--	--
MW-106	586	587.7	587.89	14.2 to 19.2 ft.	581.4	584.23	584.11	9.6 to 14.6 ft	582.9	584.3	584.16	11.1 to 16.1 ft.	582.8	582.42	9.4 to 14.4 ft.	--	--
MW-301	582.5	582.53	582.14	13.5 to 18.5 ft.	582.5	582.53	582.14	13.5 to 18.5 ft.	582.5	582.53	582.14	13.5 to 18.5 ft.	--	--	--	--	--
MW-302	581.7	581.72	581.35	12.8 to 17.5 ft.	581.7	581.72	581.35	12.8 to 17.5 ft.	581.7	581.72	581.35	12.8 to 17.5 ft.	Destroyed; Removed from program May 2016			Destroyed; Removed from program May 2016	
MW-303	582.4	582.43	581.79	11.1 to 15.8 ft.	582.4	582.43	581.79	11.1 to 15.8 ft.	582.4	582.43	581.79	11.1 to 15.8 ft.	--	--	--	--	--

	Historical Water Levels					
Well ID	*December 2012 feet (from TOR)*	*December 2012 Elevation*	*March 2013 feet (from TOR)*	*March 2013 Elevation*	*January 2014 (from TOR)*	*January 2014 Elevation*
MW-101	6.12	579.15	5.73	579.54	4.22	581
MW-102	3.89	578.22	3.85	578.26	N/A	N/A
MW-102R	N/A	N/A	N/A	N/A	6.51	578.79
MW-103	9.62	579.22	9.9	578.94	6.82	579.54
MW-104	10.41	574.76	10.46	574.71	10.05	575.08
MW-105	8.72	575.96	9.22	575.46	8.86	575.82
MW-106	8.71	579.18	9.02	578.87	4.56	579.55
MW-301	N/A	N/A	7.37	574.77	6.98	575.16
MW-302	N/A	N/A	3.7	577.65	2.90	578.45
MW-303	N/A	N/A	6.7	575.09	6.37	575.42

Notes and Abbreviations:
TOR = Top of Riser
1. Elevation datum is NAVD 1988.

APPENDIX F –

FIELD SAMPLING FORMS AND LOGS

Static Water Levels

Location (Site/Facility Name): ______________________
Location (Address): ______________________
Client: ______________________

Date: ______________________
Performed By: ______________________
Job Number: ______________________

Well ID	Riser Elevation* (NAVD 1988)	Water Level (from Top of Riser)	Well Condition/Notes	Repairs Needed?
MW-102R	**582.13**			
MW-103	**582.64**			
MW-104	**582.00**			
MW-105	**582.41**			
MW-106	**582.42**			
MW-301	**582.14**			
MW-303	**581.79**			

* - Riser elevations for MW-301 and MW-303 last surveyed in 2014.
- Riser elevations for MW-103, MW-104, MW-105 and MW-106 last surveyed in 2016.
- Riser elevation for MW-102R last surveyed in 2021.

APPENDIX G –

QUALITY ASSURANCE PROJECT PLAN

QUALITY ASSURANCE PROJECT PLAN
FORMER AMERICAN LINEN SUPPLY COMPANY FACILITY
822 SENECA STREET
BUFFALO, NEW YORK
NYSDEC BCP SITE ID: C915241

by

Haley & Aldrich of New York
Rochester, New York

for

AmeriPride Services, Inc.
Minneapolis, Minnesota

File No. 33587-054
October 2014

Quality Assurance Project Plan

TITLE: Quality Assurance Project Plan, Former American Linen Supply Co Facility Site Management Plan

Prepared By/Date: Haley & Aldrich of New York, October 2014

Dennis M. Conley 10/29/2014

QA Officer Date

Claire L. Mondello 10/29/2014

Haley & Aldrich Project Manager Date

Date of Issue: October 2014

EXECUTIVE SUMMARY

This Quality Assurance Project Plan (QAPP) presents the organization, objectives, planned activities, and specific quality assurance / quality control (QA/QC) procedures associated with the site monitoring at the Former American Linen Supply Co Facility in Buffalo, New York ("the Site") in accordance with the New York State Department of Environmental Conservation (NYSDEC). Protocols for sample collection, sample handling and storage, chain-of-custody procedures, and laboratory and field analyses are described here in or specifically referenced to related investigation documents.

The QA/QC procedures described in this QAPP have been developed to be generally consistent with current NYSDEC technical and administrative guidance memoranda and addresses the requirements described in the NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs, 14 December 2006; and NYSDEC Technical Guidance for Site Investigation and Remediation, DER-10, 3 May 2010.

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TABLES

APPENDIX A – Summary of Field and Laboratory Parameters
APPENDIX B – Applicable QAPP Worksheets

LIST OF TABLES

1 PROJECT DESCRIPTION

This Quality Assurance Project Plan (QAPP) has been prepared on behalf of AmeriPride Services, Inc. (AmeriPride). The QAPP is a component of the NYSDEC Site Management Plan (SMP) that also includes an Excavation Management Plan (EMP) and Health and Safety Plan (HASP).

1.1 Project Objectives and Decision Statement

The primary objectives for data collection activities include:

- Collect and evaluate data necessary to monitor the nature and extent of groundwater impacts, and;
- Characterize environmental media for reuse or disposal as necessary during site management activities.

Associated specific objectives for field and laboratory data collection are discussed in Section 1.4 of this plan.

1.1.1 Project Status/Phase

The project status and management approach are presented in the SMP. Section 1 summarizes the Site background. Section 2 describes the applicable engineering and institutional controls (IC/ECs). Section 3 describes the site monitoring plan. Section 4 describes operations and maintenance of site systems.

1.1.2 QAPP Preparation Guidelines

This QAPP has been prepared in accordance with the United States Environmental Protection Agency, (1999). EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations. EPA QA/R-5 Interim Final, November 1999.

1.2 Site Description

The general Site description is provided in Section 1 of the SMP and is incorporated herein by reference.

Site Location	SMP Figure 1
Site Plan	SMP Figure 2

1.3 Site History

The Site history is provided in Section 1 of the SMP and incorporated herein by reference.

1.4 Target Parameter List and Intended Data Use

1.4.1 Target Parameter List

The SMP monitoring program will include the sampling and analysis of environmental media for the presence of organic and inorganic constituents based on the historical use of the Site. The parameters of analysis are presented in Table 1 with the associated laboratory reporting and method detection limits determined by the project laboratory in accordance with the provisions of the Federal Register, Volume 49, Number 209, October 26, 1984 pp. 198-199.

1.4.1.1 Laboratory Parameters

The laboratory parameters include target compound list (TCL) for volatile organic compounds (VOC) in soil and groundwater in accordance with EPA Method 8260B. In addition, some soil samples will be analyzed for TCL semi-volatile organic compounds (SVOCs) by EPA Method 8270C, target analyte list (TAL) metals by EPA Methods 6010/7471, and polychlorinated biphenyls (PCBs) and pesticides by EPA Methods 8081 as needed for disposal, reuse, or import to the site. If required, sub-slab vapor and indoor air samples will be analyzed for VOCs via EPA Method TO-15.

Concurrent with sample collection, several field parameters will be determined. For soils and solid matrices, field parameters will include visual observations, odor identification, and VOC screening using handheld monitoring equipment.

1.5 Sampling Locations

The SMP provides a summary and rationale for the location of groundwater samples. Soil sample locations will be identified as needed for the characterization of excavated soils for off-site disposal or on-site reuse as backfill, and the import of soils to the Site,. The person responsible for making such decisions will be the Project Manager whose responsibilities are described in Section 2.0 of this QAPP.

1.6 Project Schedule

Site management activities are intended to be ongoing. The schedule of project monitoring presented in the SMP Table 6.

2 PROJECT ORGANIZATION AND RESPONSIBILITIES

This section defines the roles and responsibilities of the individuals who will perform the SMP activities. The Site Manager will have the primary responsibility for implementation of the SMP. The selected analytical laboratory will perform the analyses of environmental samples collected at the Site.

2.1 Management Responsibilities

A description of the project organization is presented in the SMP. Management responsibilities of key personnel include:

Owners' Representative

The Owners' Representative is responsible for implementing the project, and has the authority to commit the resources necessary to meet project objectives and requirements. The Owners Representative will establish project policy and procedures to address the specific needs of the project and will also respond to issues related to community outreach. He/she will provide the primary point of contact and represent the project team at regulatory agency and public meetings.

Project Director/Project Engineer

The Project Director/Engineer will provide final review and approval of significant submittals to NYSDEC and may participate in technical meetings. The Project Director/Engineer will ensure that overall technical quality is maintained. He/she will be actively involved in the direction of the project and has overall responsibility for the project. The Project Engineer is also responsible for certifying the Periodic Review Report.

Project Manager

The Project Manager is responsible for managing the implementation of the SMP and coordinating the collection of data in accordance with the requirements of this QAPP. The Project Manager is responsible for technical quality control and project oversight. The Project Manager responsibilities include the following:

- Review work performed to ensure quality, responsiveness, and timeliness;
- Be responsible for the preparation and quality of interim and final reports;
- Communicate with the Owners' Representative Project Manager concerning the progress of the project;
- Assure corrective actions are taken for deficiencies cited during audits of SMP activities; and
- Overall Site health and safety plan compliance.

2.2 Quality Assurance Responsibilities

The Quality Assurance (QA) team will consist of a Quality Assurance Officer, and qualified staff with the responsibilities described as follows:

Quality Assurance (QA) Officer

The QA Officer reports directly to the Owners' Representative Project Manager and will be responsible for ensuring that QA/QC procedures are followed. The QA Officer will be responsible for overseeing the review of field and laboratory data. Additional responsibilities include the following:

- Assure the application and effectiveness of the QAPP by the project staff and the analytical laboratory;
- Conduct internal QA/QC of the SMP monitoring activities;
- Provide input to the Project Director, and Project Manager as to corrective actions that may be required as a result of the above-mentioned evaluations;
- Prepare and review data validation and audit reports;
- Approval of the QAPP.

The QA Officer will be assisted by the data validation staff in the evaluation and validation of field and laboratory generated data.

Data Validation Staff

The data validation staff will be independent of the laboratory and familiar with the analytical procedures performed. The validation will include a review of the criterion as prescribed by the guidelines presented in Section 12.2 of this document and be presented in a formal written report for submittal to the QA Officer.

NYSDEC Quality Assurance Officer

The NYSDEC Quality Assurance Officer may review this QAPP, conduct external performance and system audits of the project laboratory (as needed); and review and evaluate field and analytical laboratory procedures.

2.3 Laboratory Responsibilities

Laboratory services in support of the SMP include the following personnel:

Laboratory Project Manager

The Laboratory Project Manager will report directly to the QA Officer and Project Manager, and will be responsible for ensuring all resources of the laboratory are available on an as-required basis. The Laboratory Project Manager will also be responsible for the approval of the final analytical reports.

Laboratory Operations Manager

The Laboratory Operations Manager will report to the Laboratory Project Manager and will be responsible for coordinating laboratory analysis, supervising in-house chain-of-custody reports, scheduling sample analyses, overseeing data review and overseeing preparation of analytical reports.

Laboratory QA Officer

The Laboratory QA Officer will have sole responsibility for review and validation of the analytical laboratory data. The Laboratory QA Officer will provide Case Narrative descriptions of any data quality issues encountered during the analyses conducted by the laboratory. The QA Officer will review QA/QC documentation and define appropriate corrective action procedures as needed.

Laboratory Sample Custodian

The Laboratory Sample Custodian will report to the Laboratory Operations Manager and will be responsible for the following:

- Receive and inspect the incoming sample containers;
- Record the condition of the incoming sample containers;
- Sign appropriate documents;
- Verify chain-of-custody and its correctness;
- Notify the Project Manager and Operations Manager of sample receipt and inspection;
- Assign a unique identification number and customer number, and enter each into the sample receiving log;
- Initiate transfer of samples to lab sections; and
- Control and monitor access/storage of samples and extracts.

Laboratory Technical Personnel

The laboratory technical staff will have the primary responsibility in the performance of sample analysis and the execution of the QA procedures developed to determine the data quality. These activities will include the proper preparation and analysis of the project samples in accordance with the contract laboratory's Quality Assurance Manual and associated Standard Operating Procedures.

2.4 Field Responsibilities

Field Coordinator

The Field Coordinator is responsible for the overall operation of the field team and reports directly to the Project Director and Project Manager. The Field Coordinator works with the Site Health and Safety Officer (HSO) to conduct operations in compliance with the project Health and Safety Plan (HASP). The Field Coordinator will facilitate communication and coordinate efforts between the Project Manager and the field team members.

Other responsibilities include the following:

- Develop and implement field-related work plans, ensuring schedule compliance, and adhere to project requirements;
- Coordinate and manage field staff;
- Perform field system audits;
- Oversee quality control for technical data provided by the field staff;
- Prepare and approve text and graphics required for field team efforts;
- Coordinate and oversee technical efforts of subcontractors assisting the field team;
- Identify problems in the field; resolve difficulties in consultation with the Project Director, QAO, and Project Manager; implement and document corrective action procedures and,
- Participate in preparation of the final reports.

Field Team Personnel

Field Team Personnel will be responsible for the following:

- Perform field activities in compliance with the SMP and this QAPP;
- Immediately report any accidents and/or unsafe conditions to the Project Manager and,
- Take precautions to prevent injury.

3 QUALITY ASSURANCE OBJECTIVES FOR MEASUREMENT DATA

The SMP and associated QAPP are designed to produce data to achieve the project objectives and meet or exceed the minimum standard requirements for the field and laboratory analytical methods. The overall project data quality objective (DQO) is to develop and implement procedures for field sampling, handling, chain-of-custody, laboratory analysis, and reporting that achieve the project objectives. The following section is a general discussion of the criteria that will be used to measure and achieve the project DQO.

3.1 Precision

3.1.1 Definition

Precision will be determined by collecting and analyzing field duplicate samples and by creating and analyzing laboratory duplicates from one or more of the field samples. Precision is defined as a quantitative measure of the degree to which two or more measurements are in agreement. Precision will be stated in terms of relative percent difference (RPD). The analytical results from the field duplicate samples will provide data on sampling precision. The results from duplicate samples created by the laboratory will provide data on analytical precision.

3.1.2 Field Precision Sample Objectives

Field precision will be assessed through collection and measurement of field duplicate samples at a rate of 1 duplicate per 20 samples.

3.1.3 Laboratory Precision Sample Objectives

Laboratory precision will be assessed through the analysis of laboratory control samples (LCS/LCSD) samples. The analytical data will be presented in summary table format. The DQO criteria for laboratory LCS/LCSD analyses are provided in Appendix A.

3.2 Accuracy

3.2.1 Definition

Accuracy relates to the bias in a measurement system. Bias is the difference between the observed and the "true" value. Sources of error are the sampling process, field contamination, preservation techniques, sample handling, sample matrix interference, sample preparation and analytical procedure limitations.

3.2.2 Field Accuracy Objectives

Sampling bias will be assessed by evaluating the results of equipment rinse and trip blanks. Equipment rinse and trip blanks will be collected as appropriate for each sampling effort.

Equipment rinse blanks will be collected by passing ASTM Type II water over and/or through the respective sampling equipment utilized during the sampling effort. One equipment rinse blank will be collected for each type of non-dedicated sampling equipment used for the sampling effort.

Equipment rinse blanks will be analyzed for the target parameters for which environmental media have been collected. (Note: If dedicated or disposable sampling equipment is used, equipment rinse samples will not be collected as part of that field effort.)

Trip blank samples will be prepared by the laboratory and provided within each transportation cooler for volatile organic compound (VOC) containers. Trip blank samples will be analyzed for the VOCs for which environmental media have been collected for analysis.

3.2.3 Laboratory Accuracy Objectives

Analytical bias will be assessed through the use of known laboratory control samples (LCS) and site specific matrix spike (MS) and matrix spike duplicate (MSD) sample analyses. LCS analyses will be performed with each analytical batch of project samples to determine the accuracy of the analytical system.

One (1) set of MS/MSD analyses will be performed with each batch of twenty (20) project samples to assess the accuracy of identification and quantification of analytes within the site-specific sample matrices. Additional sample volume will be collected at sample locations selected for MS/MSD analyses so that method detection limits (MDLs) and laboratory reporting limits (RLs) can be met.

The accuracy of organic parameter analyses is also monitored through the analysis of system monitoring or surrogate compounds. Surrogate compounds are added to each sample, standard, blank, and QC samples prior to the sample preparation and analysis. Surrogate compound percent recoveries provide information on the effect of the sample matrix on the accuracy of the analyses. The results of the LCS and MS/MSD analyses and surrogate compounds will be presented in a summary table reporting format and evaluated versus the laboratory specific acceptance criteria presented in Appendix A.

3.3 Representativeness

3.3.1 Definition

Representativeness expresses the degree to which sample data accurately and precisely represent a characteristic of a population, a parameter variation at a sampling point or an environmental condition. Representativeness is a qualitative parameter that is dependent upon the design of the sampling program. The representativeness criterion is satisfied by proper selection of sampling locations and quantity of samples collected.

3.3.2 Measures to Ensure Representativeness of Field Data

Representativeness will be addressed by prescribing sampling techniques and the rationale used to select sampling locations.

Sampling will generally be biased unless otherwise noted in the SMP; that is, sampling associated with the soil and groundwater will be based on site knowledge and/or the observed presence/absence of potential contaminants. Specific sampling technique descriptions, which allow consistency, repetitiveness and thus representativeness, are provided in the SMP.

3.3.3 Measures to Ensure Representativeness of Laboratory Data

Representativeness in the laboratory is ensured by using proper analytical procedures and analyzing duplicate samples. By definition, duplicate samples are collected and analyzed to be representative of a given point in space and time which provide both precision and representativeness information.

3.4 Completeness

3.4.1 Definition

Completeness is a measure of the amount of valid (usable) data obtained from a measuring system compared to the total amount of the data obtained or anticipated. The completeness goal for all data uses is that a sufficient amount of valid data be generated so that decisions can be made related to the intended data use with a high degree of confidence. The evaluation of the data completeness will be performed at the conclusion of each sampling and analysis effort.

3.4.2 Field Completeness Objectives

Completeness is a measure of the amount of valid measurements obtained from all measurements taken versus the number proposed in the SMP. Field completeness objective for this project will be greater than (>) 90 percent (%).

3.4.3 Laboratory Completeness Objectives

Laboratory data completeness objective is a measure of the amount of valid data obtained from all laboratory measurements. Corrective actions such as revised sample handling procedures will be implemented if problems are noted. The completeness of the data generated will be determined by comparing the amount of valid data, based on independent validation, with the total data set. The completeness goal will be >90%.

3.5 Comparability

3.5.1 Definition

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another.

3.5.2 Measures to Ensure Comparability of Field Data

Sample data should be comparable to other measurement data for similar samples and sample conditions. This goal is achieved through using standard operating procedures (SOP) to collect, preserve, store and analyze representative samples, and the reporting of analytical results. The field SOP for the various activities to be conducted during this investigation will provide guidelines to generate reproducible results.

3.5.3 Measures to Ensure Comparability of Laboratory Data

Comparability of laboratory data will be maintained through the use of Standard Reference Materials (SRM) obtained from either EPA Cooperative Research and Development Agreement (CRADA) suppliers or the National Institute of Standards and Technology (NIST) for the preparation of instrument calibration and LCS solutions.

The reported results for the sample analyses will also be presented in standard units of mass of contaminant within a known volume of environmental media.

The units for various sample matrices are described as follows:

- Solid Matrices - milligrams (mg) contaminant per kilogram (kg) of media (Dry Weight).
- Aqueous Matrices – micrograms (ug) contaminant per liter (L) of media for organic analyses, and milligrams per liter for inorganic analyses.
- Gaseous Matrices – micrograms (ug) contaminant per cubic meter (M^3) of media

3.6 Decision Rules

3.6.1 Definition

The decision rule is a statement that prescribes a course of action or non-action to be taken, based on assumptions to test its logical and empirical consequences.

3.6.2 Decision Rule Objective

The rationale for sample locations, sample number and analytical parameters is provided in the SMP. The decision rule for the sampling and analysis data collected is as follows:

1. Samples will be collected at discrete locations to provide a comprehensive assessment of impacted media.

2. Sample data will be compared to regulatory action levels to determine the appropriate action as defined in the SMP.

3.7 Level of Quality Control Effort

Equipment rinse, trip and method blank samples; field and laboratory duplicate samples; and laboratory control and matrix spike samples will be prepared and analyzed to determine the analytical data quality.

Equipment rinse blanks will be prepared by field personnel and submitted for analysis of target parameters. Equipment rinse blank samples will be analyzed to check for contamination of equipment introduced during sampling at the Site. One (1) equipment rinse blank will be collected from non-dedicated equipment per sampling event.

Trip blanks are used to assess the potential for contamination during sample storage and shipment. The trip blank will consist of ASTM Type II water that has been provided with the sample containers to be used for sampling VOC. Trip blanks will be preserved and handled in the same manner as the project samples. One (1) trip blank will be included along with each shipment cooler containing project samples to be analyzed for VOCs.

Method blank samples will be prepared by the laboratory and analyzed concurrently with all project samples to assess potential contamination introduced during the analytical process.

Field duplicate samples are analyzed to determine sampling and analytical reproducibility. One (1) field duplicate will be collected for every 20 or fewer investigative samples collected for laboratory analysis.

Matrix spikes will provide information to assess the precision and accuracy of the analysis of the target parameters within the environmental media collected. One (1) matrix spike/matrix spike duplicate (MS/MSD) will be collected for every 20 or fewer investigative samples per sample matrix (i.e. soil or groundwater).

(Note: Soil MS/MSD samples require triple sample volume for VOC only. Aqueous MS/MSD samples require triple the normal sample volume for VOC analysis and double the volume for the remaining parameters.)

4 SAMPLING PROCEDURES

Samples of soil and groundwater will be obtained during the SMP program. The SMP describes each of the sampling tasks and project objectives.

The SMP and EMP provide the standard operating procedures (SOP) for sampling of each environmental media including soil stockpiles and groundwater.

4.1 Sample Containers

Sample containers for each sampling task will be provided by the project laboratory. The containers will be cleaned by the manufacturer to meet or exceed the analyte specifications established in the EPA, "Specifications and Guidance for Obtaining Contaminant-Free Sample Containers", April 1992, OSWER Directive #9240.0-0.5A. Certificates of analysis for each lot of sample containers used will be maintained by the laboratory and will be available upon request.

The appropriate sample containers, preservation method, maximum holding times, and shipping information for each target parameter and sampling task are provided in Table 1.

4.2 Sample Labeling

Each sample will be labeled with a unique sample number that will facilitate tracking and cross-referencing of sample information. Equipment rinse blank and field duplicate samples also will be numbered with a unique sample numbers.

4.3 Field QC Sample Collection

4.3.1 Equipment Rinse Blank Sample Collection

Equipment rinse blank samples will be collected when non-dedicated sampling equipment is used to collect samples. Equipment rinse blanks consist of distilled water that has been routed through decontaminated sampling equipment and collected into the appropriate containers. The containers will be filled in order of decreasing analyte volatility (i.e., VOC first, SVOC second and followed by the containers for the remaining analyses).

4.3.2 Field Duplicate Sample Collection

4.3.2.1 Water Samples

Field duplicate samples will be collected using the following procedure:

1. The first sample container is filled to the proper level and sealed. The procedure is repeated for the second sample container.

2. The samples are properly labeled as specified in Section 4.2.

3. Steps 1 through 4 are repeated for the bottles for each analysis. The samples are collected in order of decreasing analyte volatility as detailed in Section 4.3.1.

4. Chain-of-custody documents are executed.

5. The samples will be packaged as specified in Table 1.

4.3.2.2 Soil Samples

Soil field duplicates will be collected as specified in the following:

1. The split-spoon sampler or trowel will be retrieved from the sampling point.

2. Soil for VOC analysis will be removed from the sampling device.

3. Soil for non-VOC analysis will be removed from the sampling device and placed in a stainless steel mixing bowl. The soil will be thoroughly homogenized using stainless steel utensils and the sample containers will be filled in order of decreasing analyte volatility as described in Section 4.3.1.

5 CUSTODY PROCEDURES

Custody is one of several factors necessary for the admissibility of environmental data as evidence in a court of law. Custody procedures help to satisfy the two major requirements for admissibility: relevance and authenticity. Sample custody is addressed in three parts: field sample collection, laboratory analysis and final project files.

Custody of a sample begins when it is collected by or transferred to an individual and ends when that individual relinquishes or disposes of the sample. A sample or project file is under custody if:

1. the item is in actual possession of a person;
2. the item is in the view of the person after being in actual possession of the person;
3. the item was in actual possession and subsequently stored to prevent tampering; or
4. the item is in a designated and identified secure area.

5.1 Field Custody Procedures

Field personnel will keep written records of field activities on applicable preprinted field forms or in a bound field notebook to record data collecting activities. These records will be written legibly in ink and will contain pertinent field data and observations. Entry errors or changes will be crossed out with a single line, dated and initialed by the person making the correction. Field forms and notebooks will be periodically reviewed by the Field Coordinator.

The beginning of each entry in the logbook or preprinted field form will contain the following information:

- Date
- Start time
- Weather
- Names of field personnel (including subcontractors)
- Level of personal protection used at the Site
- Names of all visitors and the purpose of their visit.

For each measurement and sample collected, the following information will be recorded:

- Detailed description of sample location,
- Equipment used to collect sample or make measurement and the date equipment was calibrated,
- Time sample was collected,
- Description of the sample conditions,
- Depth sample was collected (if applicable),
- Volume and number of containers filled with the sample; and,
- Sampler's identification.

5.1.1 Field Procedures

Data quality can be affected by sample collection activities. If the integrity of collected samples is questionable, the data, regardless of its analytical quality, will also be questionable.

The following procedure describes the process to maintain the integrity of the samples:

- Upon collection samples are placed in the proper containers. In general, samples collected for organic analysis will be placed in pre-cleaned glass containers and samples collected for inorganic analysis will be placed in pre-cleaned plastic (polyethylene) bottles.

- Samples will be assigned a unique sample number and will be affixed to a sample label.

- Samples will be properly and appropriately preserved by field personnel in order to minimize loss of the constituent(s) of interest due to physical, chemical or biological processes.

- Appropriate volumes will be collected to ensure that the appropriate reporting limits can be successfully achieved and that the required QC sample analyses can be performed.

5.1.2 Transfer of Custody and Shipment Procedures

- A chain-of-custody (COC) record will be completed at the time of sample collection and will accompany each shipment of project samples to the laboratory. The field personnel collecting the samples will be responsible for the custody of the samples until the samples are relinquished to the laboratory. Sample transfer will require the individuals relinquishing and receiving the samples to sign, date and note the time of sample transfer on the COC record.

- Samples will be shipped or delivered in a timely fashion to the laboratory so that holding-times and/or analysis times as prescribed by the methodology can be met.

- Samples will be transported in containers (coolers) which will maintain the refrigeration temperature for those parameters for which refrigeration is required in the prescribed preservation protocols.

- Samples will be placed in an upright position and limited to one layer of samples per cooler. Additional bubble wrap or packaging material will be added to fill the cooler. Shipping containers will be secured with tape for shipment to the laboratory.

- If samples are split with the NYSDEC representatives, a separate chain-of-custody will be prepared and marked to indicate with whom the samples are shared. The person relinquishing the samples will require the representative's signature acknowledging sample receipt.

- If samples are sent by a commercial carrier, a bill of lading will be used. Commercial carriers will not sign the custody record as the custody record is sealed inside the sample cooler.

- Samples will be shipped to the laboratory courier or transported by courier to the laboratory the day of collection.

5.2 Laboratory Chain-of-Custody Procedures

A sample custodian will be designated by the laboratory and will have the responsibility to receive all incoming samples. Once received, the custodian will document if the sample is received in good condition (i.e., unbroken, cooled, etc.) and that the associated paperwork, such as chain-of-custody forms have been completed.

The custodian will sign the COC and document if sufficient sample volume has been received to complete the analytical program. The sample custodian will then place the samples into secure, limited access storage (refrigerated storage, if required). The sample custodian will assign a unique number to each incoming sample for use in the laboratory. The unique number will then be entered into the sample-receiving log with the verified time and date of receipt noted.

The laboratory will begin the analyses requested on the chain-of-custody form in accordance with the appropriate methodologies. Samples will be removed from secure storage in accordance with the laboratory internal chain-of-custody procedures.

5.3 Storage of Samples

Empty sample bottles will be returned to secure and limited access storage after the available volume has been consumed by the analysis. Upon completion of the entire analytical work effort, samples will be disposed of by the sample custodian. The excess samples will be stored at least thirty (30) days after the final laboratory reports have been issued to the Project Manager. Disposal of excess samples and empty containers will be completed in accordance with all Federal, State and local requirements.

5.4 Final Project Files Custody Procedures

The final project files will be the central repository for all documents with information relevant to sampling and analysis activities as described in this QAPP. The Project Manager will be the custodian of the project file. The project files including all relevant records, reports, logs, field notebooks, pictures, subcontractor reports and data reviews will be maintained in a secured, limited access area and under custody of the Project Director or his designee.

The final project file will include the following:

- Project plans and drawings
- Field data records
- Sample identification documents and soil boring/monitoring well logs
- All chain-of-custody documentation
- Correspondence
- References, literature
- Laboratory data deliverables
- Data validation and assessment reports
- Progress reports, QA reports
- Final report

The laboratory will be responsible for maintaining analytical logbooks, laboratory data and sample chain of custody documents. Raw laboratory data files and copies of hard copy reports will be inventoried and maintained by the laboratory for a period of six (6) years at which time the laboratory will contact the Project Manager regarding the disposition of the project related files.

6 CALIBRATION PROCEDURES AND FREQUENCY

6.1 Field Instrument Calibration Procedures

Several field instruments will be used for both on-site screening of samples and for health and safety monitoring, as described in the Health and Safety Plan (HASP). On-site air monitoring for health and safety purposes may be accomplished using several different organic vapor detection devices, such as a Photo-ionization Detector (PID), Combustible Gas Indicator (CGI), and/or Draeger tubes.

Field instruments will be calibrated in accordance with the instrument manufacturer's requirements and checked during field activities to verify performance.

6.2 Laboratory Instrument Calibration Procedures

Reference materials of known purity and quality will be utilized for the analysis of environmental samples. The laboratory will carefully monitor the preparation and use of reference materials including solutions, standards and reagents through well-documented procedures.

All solid chemicals and acids/bases used by the laboratory will be rated as "reagent grade" or better. All gases will be "high" purity or better. All Standard Reference Materials (SRMs) or Performance Evaluation (PE) materials will be obtained from approved vendors of the National Institute of Standards and Technology (formerly National Bureau of Standards), the U.S. EPA Environmental Monitoring Support Laboratories (EMSL), or reliable Cooperative Research and Development Agreement (CRADA) certified commercial sources.

7 ANALYTICAL PROCEDURES

Analytical procedures to be utilized for analysis of environmental samples will be based on referenced U.S. EPA promulgated analytical protocols.

7.1 Field Analytical Procedures

Field analytical procedures include qualitative measurement of Volatile Organic Compounds (VOC) during the collection of soil samples.

7.2 Laboratory Analytical Procedures

Laboratory analyses will be based on the U.S. EPA methodology requirements promulgated in:

- "Test Methods for Evaluating Solid Waste," SW-846 EPA, Office of Solid Waste, and promulgated updates, 1986.

The laboratory reporting limits (RLs) and associated method detection limits (MDLs) for the target analytes and compounds for the environmental media to be analyzed are presented in Table 1.

7.2.1 List of Project Target Compounds and Laboratory Detection Limits

A complete list of project target compounds and project reporting limits for each analyte is listed in Table 1. MDLs have been experimentally determined by the project laboratory using the method provided in 40 CFR, Part 136 Appendix B.

7.2.2. List of Method Specific Quality Control (QC) Criteria

The laboratory method specific procedures will include a section that presents the minimum QC requirements for the project analyses. Section 8.0 references the frequency of the associated QC samples for each sampling effort and matrix.

8 INTERNAL QUALITY CONTROL CHECKS

This section presents the internal quality control checks that will be employed for field and laboratory measurements.

8.1 Field Quality Control

8.1.1 Equipment Rinse Blanks

Internal quality control checks will include analysis of equipment blanks to validate successful equipment cleaning activities. Whenever possible, dedicated equipment will be employed to reduce the possibility of cross-contamination of samples.

The frequency of equipment rinse sample preparation will be for each type of non-dedicated sampling equipment on which decontamination procedures have been performed as part of each sampling event.

8.1.2 Trip Blanks

Trip blanks samples will be prepared by the project laboratory using ASTM Type II or equivalent water placed within pre-cleaned 40 milliliter (ml) VOC vials equipped with teflon septa. Trip blanks will accompany each sample delivery group (SDG) of environmental samples collected for analysis of VOCs.

Trip blank samples will be placed in each cooler that stores and transports project samples that are to be analyzed for VOCs.

8.2 Laboratory Procedures

Procedures which contribute to maintenance of overall laboratory quality assurance and control include appropriately cleaned sample containers, proper sample identification and logging, applicable sample preservation, storage and analysis within prescribed holding times, and use of controlled materials. Note that field duplicate samples and matrix spike samples will only be collected for environmental monitoring samples, only (i.e. groundwater monitoring), and not for soil import, reuse, or disposal sampling or for sub-slab vapor or indoor air samples.

8.2.1 Field Duplicate Samples

The precision or reproducibility of the data generated will be monitored through the use of field duplicate samples. Field duplicate analysis will be performed at a frequency of 1 in 20 project samples.

Precision will be measured in terms of the absolute value of the relative percent difference (RPD) as expressed by the following equation:

$$RPD = \frac{\left| \dfrac{R1 - R2}{(R1 - R2)} \right|}{2} X100\%$$

Acceptance criteria for duplicate analyses performed on solid matrices will be 50 % and aqueous matrices will be 30%. RPD values outside these limits will require an evaluation of the sampling and/or analysis procedures by the project QA Officer and/or laboratory QA Director. Corrective actions may include re-analysis of additional sample aliquots and/or qualification of the data for use.

8.2.2 Matrix Spike Samples

Ten percent of each project sample matrix for each analytical method performed will be spiked with known concentrations of the specific target compounds/analytes.

The amount of the compound recovered from the sample compared to the amount added will be expressed as a percent recovery. The percent recovery of an analyte is an indication of the accuracy of an analysis within the site-specific sample matrix. Percent recovery will be calculated for MS/MSD using the following equation.

$$\%\ Recovery = \frac{Spiked\ Sample\ -\ Background}{Known\ Value\ of\ Spike} x\ 100\%$$

If the quality control value falls outside the control limits (UCL or LCL) due to sample matrix effects, the results will be reported with appropriate data qualifiers. To determine the effect non-compliant MS recoveries have on the reported results, the recovery data will be evaluated as part of the validation process.

8.2.3 Laboratory Control Sample (LCS) Analyses

The laboratory will perform LCS analyses prepared from Standard Reference Materials (SRMs). The SRMs will be supplied from an independent manufacturer and traceable to NIST materials with known concentrations of each target analyte to be determined by the analytical methods performed. In cases where an independently supplied SRM is not available, the LCS may be prepared by the laboratory from a reagent lot other than that used for instrument calibration.

The laboratory will evaluate LCS analyses in terms of percent recovery using the most recent laboratory generated control limits.

LCS recoveries that do not meet acceptance criteria will be deemed invalid. Analysis of project samples will cease until an acceptable LCS analysis has been performed. If sample analysis is performed in association with an out-of-control LCS sample analysis, the data will be deemed invalid.

Corrective actions will be initiated by the QA Officer and/or laboratory QA officer to investigate the problem. After the problem has been identified and corrected, the solution will be noted in the instrument run logbook and re-analysis of project samples will be performed, if possible.

The analytical anomaly will be noted in the sample delivery group (SDG) Case Narrative and reviewed by the data validator. The data validator will confirm that appropriate corrective actions were implemented and recommend the applicable use of the affected data.

8.2.4 Surrogate Compound/Internal Standard Recoveries

For VOCs, surrogates will be added to each sample prior to analysis to establish purge and trap efficiency. Quantitation will be accomplished via internal standardization techniques.

The recovery of surrogate compounds and internal standards will be monitored by laboratory personnel to assess possible site-specific matrix effects on instrument performance.

For semi-volatile organics analyses, surrogates will be added to the raw sample to assess extraction efficiency. Internal standards will be added to all sample extracts and instrument calibration standard immediately before analysis for quantitation via internal standardization techniques.

Surrogate compound/internal standard recoveries that do not fall within accepted QC limits for the analytical methodology performed will have the analytical results flagged with data qualifiers as appropriate by the laboratory and will not noted in the laboratory report Case Narrative.

To ascertain the effect non-compliant surrogate compound/internal standard recoveries may have on the reported results, the recovery data will be evaluated as part of the validation process. The data validator will provide recommendations for corrective actions including but not limited to additional data qualification.

8.2.5 Calibration Verification Standards

As presented in Section 7.0 of this plan, calibration verification (CV) standards will be utilized to confirm instrument calibrations and performance throughout the analytical process. CV standards will be prepared as prescribed by the respective analytical protocols. Continuing calibration will be verified by compliance with method-specific criteria prior to additional analysis of project samples. Non-compliant analysis of CV standards will require immediate corrective action by the project laboratory QA officer and/or designated personnel. Corrective action may include re-analysis of each affected project sample, a detailed description of the problem, the corrective action undertaken, the person who performed the action, and the resolution of the problem.

8.2.6 Laboratory Method Blank Analyses

Method blank sample analysis will be performed as part of each analytical batch for each methodology performed. If target compounds are detected in the method blank samples, the reported results will be flagged by the laboratory in accordance with standard operating procedures. The data validator will provide recommendations for corrective actions including but not limited to additional data qualification.

9 DATA REDUCTION, VALIDATION AND REPORTING

All data generated through field activities or by the laboratory operation shall be reduced and validated prior to reporting in accordance with the following procedures:

9.1 Data Reduction

9.1.1 Field Data Reduction Procedures

Field data reduction procedures will be minimal in scope compared to those implemented in the laboratory setting. The pH, conductivity, temperature, turbidity and VOC readings collected in the field will be generated from direct read instruments if applicable for the type of sampling being conducted. The data will be written into field logbooks immediately after measurements are taken. If errors are made, data will be legibly crossed out, initialed and dated by the field member, and corrected in a space adjacent to the original entry.

9.1.2 Laboratory Data Reduction Procedures

Laboratory data reduction procedures are provided by the appropriate chapter of USEPA, Test Methods for Evaluating Solid Waste", SW-846, Third Edition. All calculations will be checked at the conclusion of each day. Errors will be noted; corrections made with the original notations crossed out legibly. Analytical results for soil samples shall be calculated and reported on a dry weight basis.

Quality control data (e.g., laboratory duplicates, surrogates, matrix spikes, and matrix spike duplicates) will be compared to the method acceptance criteria. Data considered to be acceptable will be entered into the laboratory information management system (LIMS).

Data summaries will be sent to the Laboratory QA Officer for review. Unacceptable data shall be appropriately qualified in the project report. Case narratives will be prepared which will include information concerning data that fell outside acceptance limits and any other anomalous conditions encountered during sample analysis.

9.2 Data Validation

Data validation procedures shall be performed for both field and laboratory operations as described below:

9.2.1 Procedures Used to Evaluate Field Data

Procedures to evaluate field data for this project will include review of field logbooks and checking for transcription errors to project specific documents. This task will be the responsibility of the Field QAO/Project Coordinator.

9.2.2 Procedures to Validate Laboratory Data

Validation of the analytical data will be performed by the QA Officer or designee using the following documents as guidance for the review process:

"U.S.EPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999 and the "U.S. EPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review ", EPA-540/R-02-008, July 2002.

The specific data qualifiers used will be as presented and defined in the CLP National Functional Guidelines. Validation will be performed by qualified personnel at the direction of the QA Officer. Data review and validation will consist of two tiers of assessment that incorporates an approach similar to "Innovative Approaches to Data Validation", U.S.EPA Region III, June 1995.

The completeness of each data package will be evaluated by the Data Validator. Completeness checks will be administered on all data to determine whether deliverables specified in the QAPP are present. The validator will determine whether all required items are present and request copies of missing deliverables.

Tier I data validation will be performed for the laboratory quality control summary data deliverables associated with the routine groundwater monitoring program and soil management activities. The following QA/QC elements will be evaluated:

Organic Analysis

i) technical holding times;

ii) GC/MS instrument performance check;

iii) method, trip and equipment rinsate blanks;

iv) system monitoring compounds (surrogate spikes);

v) MS/MSD results;

vi) laboratory control samples; and

vii) field duplicate samples.

Inorganic Analysis

i) technical holding times;

ii) blanks;

iii) laboratory control samples;

iv) MS/MSD results; and

v) field duplicates.

Tier II validation will only be completed at which time AmeriPride applies for delisting and an expanded package of the final round of groundwater data is obtained. The following will be evaluated during tier II validation:

Organic Analyses

i) technical holding times;

ii) GC/MS instrument performance check;

iii) initial and continuing calibration;

iv) blanks;

v) system monitoring compounds (surrogate spikes);

vi) MS/MSD results;

vii) laboratory control samples;

viii) internal standard performance;

ix) system performance;

x) target compound identification (GC/MS analyses); and

xi) field duplicates

Inorganic Analyses

i) technical holding times;

ii) initial and continuing calibration;

iii) blanks;

iv) interference check samples;

v) laboratory control samples;

vi) matrix duplicate sample analysis;

vii) matrix spike sample analysis;

viii) ICP interference check sample;

ix) ICP serial dilution;

x) ICP/MS internal standard performance;

xi) sample result verification; and

xii) field duplicates.

9.3 Data Reporting

Data reporting procedures shall be carried out for field and laboratory operations as indicated below:

9.3.1 Field Data Reporting

Field data reporting shall be conducted principally through the transmission of report sheets containing tabulated results of all measurements made in the field and documentation of all field calibration activities.

9.3.2 Laboratory Data Reporting

The laboratory data reporting package will be sufficient to perform a data validation in accordance with protocols described above. The NYSDEC Analytical Services Protocol (ASP) Category A deliverables will be used for interim groundwater sampling.

Sampling performed to support the delisting and site closure activities will be reported with NYSDEC ASP Category B deliverables. The NYSDEC reserves the right to request Category B deliverables and full validation as deemed necessary for soil management activities.

10 PERFORMANCE AND SYSTEM AUDITS

A performance audit is an independent quantitative comparison with data routinely obtained in the field or the laboratory. Performance audits include two separate, independent parts: internal and external audits.

10.1 Field Performance and System Audits

10.1.1 Internal Field Audit Responsibilities

Internal audits of field activities will be initiated at the discretion of the Owners' Representative Project Manager and will include the review of sampling and field measurements. The audits will verify that all procedures are being followed. Internal field audits will be conducted once during each phase of the sampling and at the conclusion of the project. The audits will include examination of the following:

- Field sampling records, screening results, instrument operating records
- Sample collection
- Handling and packaging in compliance with procedures
- Maintenance of QA procedures
- Chain-of-custody reports

10.1.2 External Field Audit Responsibilities

External audits may be conducted by the Project Coordinator at any time during the field operations. These audits may or may not be announced and are at the discretion of the NYSDEC. The external field audits can include (but are not limited to) the following:

- Sampling equipment decontamination procedures
- Sample bottle preparation procedures
- Sampling procedures
- Examination of health and safety plans
- Procedures for verification of field duplicates
- Field screening practices

10.2 Laboratory Performance and System Audits

10.2.1 Internal Laboratory Audit Responsibilities

The laboratory system audits are typically conducted by the laboratory QA Officer or designee on an annual basis. The system audit will include an examination of laboratory documentation including: sample receiving logs, sample storage, chain-of-custody procedures, sample preparation and analysis and instrument operating records.

At the conclusion of internal system audits, reports will be provided to the laboratory's operating divisions for appropriate comment and remedial/corrective action where necessary. Records of audits and corrective actions will be maintained by the Laboratory QA Officer.

10.2.2 External Laboratory Audit Responsibilities

External audits will be conducted as required, by the New York State Department of Health (NYSDOH) or designee. External audits may include any of the following:

- Review of laboratory analytical procedures
- Laboratory on-site visits
- Submission of performance evaluation samples for analysis

Failure of any of the above audit procedures can lead to laboratory disqualification, and another suitable laboratory will have to be chosen. An on-site review can consist of:

- Sample receipt procedures
- Custody, sample security and log-in procedures
- Review of instrument calibration logs
- Review of QA procedures
- Review of log books
- Review of analytical SOPs
- Personnel interviews

A review of a data package from samples recently analyzed by the laboratory can include (but not be limited to) the following:

- Comparison of resulting data to the SOP or method
- Verification of initial and continuing calibrations within control limits
- Verification of surrogate recoveries and instrument timing results
- Review of extended quantitation reports for comparisons of library spectra to instrument spectra, where applicable
- Assurance that samples are run within holding times.

11 PREVENTIVE MAINTENANCE

11.1 Field Instrument Preventive Maintenance

The field equipment preventive maintenance program is designed to ensure the effective completion of the sampling effort and to minimize equipment down time. Program implementation is concentrated in three areas:

- Maintenance responsibilities.
- Maintenance schedules.
- Inventory of critical spare parts and equipment.

The maintenance responsibilities for field equipment will be assigned to the task leaders in charge of specific field operations. Field personnel will be responsible for daily field checks and calibrations and for reporting any problems with the equipment. The maintenance schedule will follow the manufacturer's recommendations. In addition, the field personnel will be responsible for determining that critical spare parts are included with the field equipment. An adequate inventory of spare parts will be maintained. The inventory will primarily contain parts that are subject to frequent failure, have limited useful lifetimes and/or cannot be obtained in a timely manner.

11.2 Laboratory Instrument Preventive Maintenance

Analytical instruments at the laboratory will undergo routine and/or preventive maintenance. The extent of the preventive maintenance will be a function of the complexity of the equipment.

Generally, annual preventive maintenance service will involve cleaning, adjusting, inspecting and testing procedures designed to deduce instrument failure and/or extend useful instrument life. Between visits, routine operator maintenance and cleaning will be performed according to manufacturer's specifications by laboratory personnel.

Maintenance records will be placed on file at the laboratory and can be made available upon request.

12 SPECIFIC ROUTINE PROCEDURES USED TO ASSESS DATA PRECISION, ACCURACY, AND COMPLETENESS

12.1 Field Measurements

Field generated information will be reviewed for validity. The review will be performed by the Field QA Officer and typically include evaluation of bound logbooks/forms, data entry and calculation checks. Field data completeness will be assessed by the QA Officer through review the field results for compliance with the established QC criteria that are specified in Section 3.0 of this QAPP.

Field data completeness will be calculated using the following equation:

$$\% \text{ Completeness} = \frac{\text{Valid (usable) Data Obtained}}{\text{Total Data Planned}} \times 100$$

12.2 Laboratory Data

Surrogate, internal standard and matrix spike recoveries will be used to evaluate data quality. The laboratory quality assurance/quality control program will include the following elements:

- Precision, in terms of relative percent difference (RPD), will be determined by duplicate sample analysis with each batch of project samples. RPD is defined as the absolute difference of duplicate measurements divided by the mean of these analyses normalized to percentage.

- Accuracy, in terms of percent recovery (recovery of known constituent additions) will be determined by the analysis of matrix spike (MS) samples. The frequency of MS analyses will be one (1) project sample MS/MSD per twenty (20) project samples. MS samples will be collected of groundwater during routine monitoring only. MS samples are not required for characterization of soil for reuse, import, or disposal.

- One method blank will be prepared and analyzed with each batch of project samples. The total number of method blank sample analyses will be determined by the laboratory analytical batch size.

- Standard Reference Materials (SRMs) will be used for each analysis. Sources of SRM's include the U.S. EPA, commercially available material from CRADA certified vendors and/or laboratory produced solutions. SRMs, when available and appropriate, will be processed and analyzed on a frequency of one per set of samples.

- Completeness is the evaluation of the amount of valid data generated versus the total set of data produced from a particular sampling and analysis event. Valid data is determined by independent confirmation of compliance with method-specific and project-specific data quality

$$\frac{\textit{Number of Valid Sample Results}}{\textit{Total Number of Samples Planned}} \; X\ 100 = \%\ \textit{Complete}$$

objectives. The calculation of data set completeness will be performed by the following equation.

13 CORRECTIVE ACTION

13.1 Field Corrective Action

Project personnel will be responsible for ensuring the quality of the sampling procedures and environmental data and as such, will be responsible for initiating corrective action when appropriate. Any Field Team member may initiate corrective action procedures by reporting in writing the nature of the suspected problem to the Project Director, Project Manager or Project QA Officer. Corrective action is intended to address unacceptable procedures or deficient quality control performance.

The corrective action procedures will be as follows:

- Identify/define the problem.
- Assign responsibility for investigating the problem.
- Investigate/determine the cause of the problem.
- Determine an appropriate corrective action to eliminate the problem.
- Implement the corrective action.
- Evaluate the effectiveness of the corrective action.
- Verify that the corrective action has eliminated the problem.
- Prepare a written record detailing the problem, corrective action utilized and solution of the problem.
- Submit the Corrective Action Record (CAR) to the Owners' Representative.

The Project Manager will begin corrective action by relating the problem to appropriate personnel.

13.2 Laboratory Corrective Action

The following paragraphs define the corrective action decision process relative to possible non-compliant events encountered during laboratory analysis of the project samples. Corrective actions will be initiated by the laboratory QA personnel and will be implemented by laboratory staff chemists under the oversight of the laboratory QA personnel. As with field corrective actions, the laboratory QA personnel will document the problem, the corrective action undertaken and the resolution of the problem. The corrective actions will be performed prior to release of the data from the laboratory.

13.3 Corrective Action During Data Validation and Data Assessment

The QA Officer may identify the need for corrective action during either the data validation or data assessment processes. Potential types of corrective action may include re-sampling by the field team or re-analysis of samples by the laboratory (if possible). These actions are dependent upon the ability to mobilize the field team, whether the data to be collected is necessary to meet the required quality assurance objectives (e.g., the holding time for samples is not exceeded). If the QA Officer identifies a corrective action during data assessment, the Project Manager will be responsible for approving the implementation of corrective action.

14 QUALITY ASSURANCE (QA) REPORTS

Critically important to the successful implementation of the SMP monitoring program is a reporting system that provides the means by which the program can be reviewed, problems identified and programmatic changes made to improve the plan.

QA reports to management include:

- Audit reports, internal and external audits with responses
- Performance evaluation sample results; internal and external sources
- Daily QA/QC exception reports/corrective actions

QA/QC corrective action reports will be prepared by the QA Officer when appropriate and presented to the project and/or laboratory management personnel so that performance criteria can be monitored for all analyses from each analytical department. The updated trend/QA charts prepared by the laboratory QA personnel will be distributed and reviewed by various levels of the laboratory management.

15 REFERENCES

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United States Environmental Protection Agency, (1993). Data Quality Objectives Process for Superfund Interim Final Guidance. U.S. EPA/540/R-93-071, Office of Solid Waste and Emergency Response (OSWER), September 1993.

United States Environmental Protection Agency, (1992). Specifications and Guidance for Contaminant-Free Sample Containers. OSWER Directive 9240.0-05A, April 1992.

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New York State Department of Environmental Conservation, NYSDEC, Division of Environmental Remediation, Technical Guidance for Site Investigation and Remediation, DER-10, May 2010.

"Site Management Plan, Former American Linen Supply Co. Facility, Erie County, New York, NYSDEC Site Number C915241," dated 29 October 2014. Prepared by Haley & Aldrich of New York.

TABLE 1
FORMER AMERICAN LINEN SUPPLY CO FACILITY SITE MANAGEMENT PLAN
SUMMARY OF ANALYTICAL METHOD, PRESERVATIVE,
HOLDING TIME AND SAMPLE SIZE REQUIREMENTS

Analysis/Method	Sample Type	Preservation	Holding Time	Volume/Weight	Container
TCL Volatiles/8260	Soil	MeOH,Cool, 4°C	14 days	20 g	40 ml Amber VOA vial (Terracore or EnCore)
TCL Semi-Volatiles/8270	Soil	Cool, 4°C	14 days	20 g	4.0 oz. Glass Jar*
TAL Metals/6010/7471	Soil	Cool, 4°C	180 days (6010)/28 days (7471)	20 g	4.0 oz. Glass Jar*
Pesticides/8081	Soil	Cool, 4°C	14 days	20 g	4.0 oz. Glass Jar*
PCBs/8082	Soil	Cool, 4°C	1 Year	20 g	4.0 oz. Glass Jar*
TCL Volatiles/8260	Water	Cool, 4°C, HCl to pH 2	14 days	120 ml	3 x 40 mL VOA Vials*
Volatiles/TO-15	Air	None	30 days	1 Liter	2 - 6 Liter Summa Canister

Notes:

1. * - Glass 4-oz. jar with septum sealed lid.
2. Methods derived from test methods for evaluating solid waste, U.S. EPA Office of Solid Waste document No. SW-846, revised 12/87.
3. Refer to text for additional information.

APPENDIX A

Summary of Field and Laboratory Parameters

**The parameters included in this appendix were provided by Alpha Analytical Services as an example. Field and laboratory parameters should meet or exceed these values.*

Alpha Analytical Inc.
Standard Reporting Limits
Westborough, MA

Pesticides in soil EPA 8081A				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
4,4'-DDD	2.854	8	25-150%	< 50%
4,4'-DDE	1.851	8	35-140%	< 50%
4,4'-DDT	6.418	15	30-155%	< 50%
Aldrin	2.816	8	25-140%	< 50%
Alpha-BHC	0.946	3.33	60-130%	< 50%
Beta-BHC	3.032	8	65-125%	< 50%
Chlordane	26.503	65	N/A	< 50%
cis-Chlordane	2.787	10	65-125%	< 50%
Delta-BHC	1.565	8	45-135%	< 50%
Dieldrin	2.501	5	30-130%	< 50%
Endosulfan I	1.889	8	50-110%	< 50%
Endosulfan II	2.675	8	30-130%	< 50%
Endosulfan sulfate	1.523	3.33	55-135%	< 50%
Endrin	1.368	3.33	55-135%	< 50%
Endrin Aldehyde	3.485	10	40-150%	< 50%
Endrin ketone	2.060	8	75-125%	< 50%
Heptachlor	1.795	4	30-145%	< 50%
Heptachlor epoxide	4.493	15	30-130%	< 50%
Lindane	1.489	3.33	60-125%	< 50%
Methoxychlor	4.681	15	55-150%	< 50%
Toxaphene	42.126	150	N/A	< 50%
trans-Chlordane	2.638	10	60-125%	< 50%
Non-Standard Compounds				
Alachlor	3.416	10	40-140%	< 50%
Hexachlorobenzene	2.004	8	25-140%	< 50%

Surrogate(s)	% Recovery
2,4,5,6-Tetrachloro-m-xylene	30-150%
Decachlorobiphenyl	30-150%

* Pest 10 & 11 2009 Microwave, Pest 10 SOX 2007,
Pest 11 SOX 2007 - highest MDL

Pesticides in Liquid EPA 8081A				
Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
4,4'-DDD	0.00464	0.04	30-135%	< 50%
4,4'-DDE	0.00381	0.04	70-125%	< 50%
4,4'-DDT	0.00432	0.04	45-140%	< 50%
Aldrin	0.00216	0.02	45-140%	< 50%
Alpha-BHC	0.00439	0.02	60-125%	< 50%
Beta-BHC	0.00560	0.02	60-125%	< 50%
Chlordane	0.04626	0.2	N/A	< 50%
cis-Chlordane	0.00666	0.02	65-120%	< 50%
Delta-BHC	0.00467	0.02	55-135%	< 50%
Dieldrin	0.00429	0.04	65-125%	< 50%
Endosulfan I	0.00345	0.02	15-135%	< 50%
Endosulfan II	0.00519	0.04	35-140%	< 50%
Endosulfan sulfate	0.00481	0.04	60-135%	< 50%
Endrin	0.00429	0.04	60-135%	< 50%
Endrin Aldehyde	0.00810	0.04	35-145%	< 50%
Endrin ketone	0.00477	0.04	65-135%	< 50%
Heptachlor	0.00310	0.02	50-140%	< 50%
Heptachlor epoxide	0.00415	0.02	65-130%	< 50%
Lindane	0.00434	0.02	60-125%	< 50%
Methoxychlor	0.00684	0.2	55-145%	< 50%
Toxaphene	0.06299	0.2	N/A	< 50%
trans-Chlordane	0.00627	0.02	65-125%	< 50%
Non-Standard Compounds				
Alachlor	0.00514	0.1	40-140%	< 50%
Hexachlorobenzene	0.00639	0.02	40-140%	< 50%

Surrogate(s)	% Recovery
2,4,5,6-Tetrachloro-m-xylene	30-150%
Decachlorobiphenyl	30-150%

* Pest 10 2007 & Pest 11 2007 - highest MDL

Alpha Analytical Inc.
Standard Reporting Limits
Westborough, MA

PCBs in soil EPA 8082				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
Aroclor 1016	6.577	33.3	40-140%	< 50%
Aroclor 1221	10.045	33.3		< 50%
Aroclor 1232	7.074	33.3		< 50%
Aroclor 1242	6.32	33.3		< 50%
Aroclor 1248	4.029	33.3		< 50%
Aroclor 1254	5.25	33.3		< 50%
Aroclor 1260	5.78	33.3	40-140%	< 50%
Aroclor 1262	2.463	33.3		< 50%
Aroclor 1268	4.831	33.3		< 50%

Surrogate(s)	% Recovery
2,4,5,6-Tetrachloro-m-xylene	30-150%
Decachlorobiphenyl	30-150%

* Pest 2 2009 , Pest 7 2008, Pest 9 2008,
Pest 12 2009, Pest 13 2012 SOX & Microwave - Highest MDL

PCBs in Liquid EPA 8082				
Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
Aroclor 1016	0.066	0.25	40-140%	< 30%
Aroclor 1221	0.058	0.25		< 30%
Aroclor 1232	0.037	0.25		< 30%
Aroclor 1242	0.072	0.25		< 30%
Aroclor 1248	0.067	0.25		< 30%
Aroclor 1254	0.041	0.25		< 30%
Aroclor 1260	0.038	0.25	40-140%	< 30%
Aroclor 1262	0.035	0.25		< 30%
Aroclor 1268	0.029	0.25		< 30%

Surrogate(s)	% Recovery
2,4,5,6-Tetrachloro-m-xylene	30-150%
Decachlorobiphenyl	30-150%

* Pest 7 2008, Pest 9 2008 - highest MDL

Pesticides in Liquid EPA 608

Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
4,4'-DDD	0.00498	0.04	30-150%	< 30%
4,4'-DDE	0.00350	0.02	30-150%	< 30%
4,4'-DDT	0.00524	0.02	30-150%	< 30%
Aldrin	0.00345	0.02	30-150%	< 30%
Alpha-BHC	0.00380	0.02	30-150%	< 30%
Beta-BHC	0.00598	0.02	30-150%	< 30%
Chlordane	0.04170	0.2	30-150%	< 30%
cis-Chlordane	0.00414	0.02	30-150%	< 30%
Delta-bhc	0.00272	0.02	30-150%	< 30%
Dieldrin	0.00295	0.04	30-150%	< 30%
Endosulfan I	0.00607	0.02	30-150%	< 30%
Endosulfan II	0.00400	0.04	30-150%	< 30%
Endosulfan sulfate	0.00524	0.04	30-150%	< 30%
Endrin	0.00434	0.02	30-150%	< 30%
Endrin Aldehyde	0.00257	0.04	30-150%	< 30%
Endrin ketone	0.00496	0.04	30-150%	< 30%
Heptachlor	0.00396	0.02	30-150%	< 30%
Heptachlor epoxide	0.00619	0.02	30-150%	< 30%
Lindane	0.00295	0.02	30-150%	< 30%
Methoxychlor	0.00583	0.2	30-150%	< 30%
Toxaphene	0.12560	0.2	30-150%	< 30%
trans-Chlordane	0.00801	0.02	30-150%	< 30%

Surrogate(s)	% Recovery
2,4,5,6-Tetrachloro-m-xylene	30-150%
Decachlorobiphenyl	30-150%

* Pest 9 2008, Pest 10 2008 - highest MDL

PCBs in Liquid EPA 608

Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
Aroclor 1016	0.0918	0.5	40-126%	< 30%
Aroclor 1221	0.0549	0.5		< 30%
Aroclor 1232	0.0690	0.5		< 30%
Aroclor 1242	0.0550	0.5		< 30%
Aroclor 1248	0.0863	0.5		< 30%
Aroclor 1254	0.0639	0.5		< 30%
Aroclor 1260	0.0322	0.5	40-127%	< 30%

Surrogate(s)	% Recovery
2,4,5,6-Tetrachloro-m-xylene	30-150%
Decachlorobiphenyl	30-150%

* Pest 9 2008, Pest 10 2008 - highest MDL

Alpha Analytical Inc.
Standard Reporting Limits
Westborough, MA

Herbicides in Soil EPA 8151A				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
2,4,5-TP (Silvex)	9.20	167	30-150%	< 30%
2,4,5-T	10.41	167	30-150%	< 30%
2,4-D	20.25	167	30-150%	< 30%
2,4-DB	11.66	167	30-150%	< 30%
Dalapon	10.36	33.3	30-150%	< 30%
Dicamba	9.72	33.3	30-150%	< 30%
Dichloroprop	10.71	33.3	30-150%	< 30%
Dinoseb	11.66	33.3	30-150%	< 30%
MCPP	956.60	3300	30-150%	< 30%
MCPA	1042.28	3300	30-150%	< 30%

Surrogate(s)	% Recovery
DCAA	30-150%

* Pest 8 2007 Highest MDL

Herbicides in Liquid EPA 8151A				
Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
2,4,5-TP (Silvex)	0.391	2	30-150%	< 25%
2,4,5-T	0.488	2	30-150%	< 25%
2,4-D	0.544	10	30-150%	< 25%
2,4-DB	1.016	10	30-150%	< 25%
Dalapon	0.454	20	30-150%	< 25%
Dicamba	0.304	1	30-150%	< 25%
Dichloroprop	0.465	10	30-150%	< 25%
Dinoseb	0.552	5	30-150%	< 25%
MCPA	28.486	500	30-150%	< 25%
MCPP	30.881	500	30-150%	< 25%

Surrogate(s)	% Recovery
DCAA	30-150%

* Pest 8 2007, Pest 12 2009 - Highest MDL

VOCs in Soil - Low EPA 8260B				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
1,1,1,2-Tetrachloroethane	0.318	1	83-119	< 30%
1,1,1-Trichloroethane	0.111	1	78-121	< 30%
1,1,2,2-Tetrachloroethane	0.171	1	70-123	< 30%
1,1,2-Trichloroethane	0.125	1.5	73-114	< 30%
1,1-Dichloroethane	0.178	1.5	79-113	< 30%
1,1-Dichloroethene	0.206	1	65-135	< 30%
1,1-Dichloropropene	0.456	5	75-119	< 30%
1,2,3-Trichlorobenzene	0.168	4	71-123	< 30%
1,2,3-Trichloropropane	0.163	4	68-118	< 30%
1,2,4,5-tetramethylbenzene	0.130	4	70-130	< 30%
1,2,4-Trichlorobenzene	0.120	4	79-129	< 30%
1,2,4-Trimethylbenzene	0.573	4	82-123	< 30%
1,2-Dibromo-3-chloropropane	0.790	4	68-118	< 30%
1,2-Dibromoethane	0.178	4	84-112	< 30%
1,2-Dichlorobenzene	0.183	4	85-115	< 30%
1,2-Dichloroethane	0.146	1	75-119	< 30%
1,2-Dichloropropane	0.228	3.5	74-114	< 30%
1,3,5-trichlorobenzene	0.230	4		< 30%
1,3,5-Trimethylbenzene	0.143	4	79-123	< 30%
1,3-Dichlorobenzene	0.183	4	85-116	< 30%
1,3-Dichloropropane	0.173	4	69-117	< 30%
1,4-Dichloro-2-butane	0.783	10	70-130	< 30%
1,4-Dichlorobenzene	0.242	4	85-116	< 30%
1,4-Dioxane	17.413	100	65-136	< 30%
2,2-Dichloropropene	0.226	5	80-125	< 30%
2-Butanone	0.355	10	76-120	< 30%
2-Chloroethylvinyl ether	0.176	20		< 30%
2-Chlorotoluene	0.160	4	74-119	< 30%
2-Hexanone	0.151	10	73-126	< 30%
4-Chlorotoluene	0.133	4	75-122	< 30%
4-ethyltoluene	0.117	4	70-130	< 30%
4-methyl-2-pentanone	0.244	10	74-130	< 30%
Acetone	3.103	10	54-140	< 30%
Acrylonitrile	0.238	4	70-130	< 30%
Benzene	0.118	1	75-125	< 30%
Bromobenzene	0.208	5	85-115	< 30%
Bromochloromethane	0.197	4	80-122	< 30%

VOCs in Soil - High EPA 8260B				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
1,1,1,2-Tetrachloroethane	15.91	50	75-119	< 30%
1,1,1-Trichloroethane	5.54	50	84-112	< 30%
1,1,2,2-Tetrachloroethane	8.53	50	74-114	< 30%
1,1,2-Trichloroethane	15.21	75	85-115	< 30%
1,1-Dichloroethane	8.88	75	83-119	< 30%
1,1-Dichloroethene	10.29	50	70-123	< 30%
1,1-Dichloropropene	22.78	250	68-118	< 30%
1,2,3-Trichlorobenzene	8.40	200	69-117	< 30%
1,2,3-Trichloropropane	11.24	200		< 30%
1,2,4,5-tetramethylbenzene	6.51	200	79-123	< 30%
1,2,4-Trichlorobenzene	39.49	200	85-116	< 30%
1,2,4-Trimethylbenzene	28.65	200	70-130	< 30%
1,2-Dibromo-3-chloropropane	39.49	200	71-123	< 30%
1,2-Dibromoethane	8.89	200	68-118	< 30%
1,2-Dichlorobenzene	9.16	200	79-129	< 30%
1,2-Dichloroethane	7.31	50	82-123	< 30%
1,2-Dichloropropane	11.42	175	85-116	< 30%
1,3,5-trichlorobenzene	11.48	200	80-125	< 30%
1,3,5-Trimethylbenzene	7.17	200	75-122	< 30%
1,3-Dichlorobenzene	9.16	200	76-120	< 30%
1,3-Dichloropropane	8.65	200	74-119	< 30%
1,4-Dichlorobenzene	12.09	200	74-130	< 30%
1,4-Dichlorobutane	39.17	500		< 30%
1,4-Dioxane	721.13	5000		< 30%
2,2-Dichloropropane	11.28	250	73-126	< 30%
2-Butanone	17.76	500	70-130	< 30%
2-Chloroethylvinyl ether	30.80	1000	73-111	< 30%
2-Chlorotoluene	7.99	200	65-136	< 30%
2-Hexanone	9.41	500		< 30%
4-Chlorotoluene	7.69	200	70-130	< 30%
4-ethyltoluene	5.85	200		< 30%
4-Methyl-2-pentanone	12.22	500		< 30%
Acetone	155.17	500	54-140	< 30%
Acrylonitrile	11.89	200	70-130	< 30%
Benzene	5.90	50	75-125	< 30%
Bromobenzene	10.42	250	85-115	< 30%
Bromochloromethane	9.85	200	80-122	< 30%

VOCs in Soil - Low EPA 8260B				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
Bromodichloromethane	0.229	1	80-115	< 30%
Bromoform	0.415	4	75-124	< 30%
Bromomethane	0.206	2	57-147	< 30%
Carbon disulfide	1.101	4	59-112	< 30%
Carbon tetrachloride	0.210	1	75-123	< 30%
Chlorobenzene	0.348	1	75-125	< 30%
Chlorodibromomethane	0.308	1	79-116	< 30%
Chloroethane	0.316	2	50-151	< 30%
Chloroform	0.370	1.5	78-114	< 30%
Chloromethane	0.168	4	52-120	< 30%
cis-1,2-Dichloroethene	0.149	1	85-117	< 30%
cis-1,3-Dichloropropene	0.127	1	77-110	< 30%
cyclohexane	0.123	20		< 30%
Dibromomethane	0.164	4	81-116	< 30%
Dichlorodifluoromethane	0.218	10	30-146	< 30%
Diisopropyl ether	0.140	4	66-118	< 30%
Ethyl Acetate	0.819	20		< 30%
Ethyl benzene	0.147	1	81-121	< 30%
ethyl ether	0.266	5	67-129	< 30%
Ethyl-methacrylate	0.168	10	70-130	< 30%
Ethyl-tert-butyl ether	0.423	4	73-111	< 30%
Freon-113	0.273	4		< 30%
Hexachlorobutadiene	0.422	4	67-126	< 30%
Isopropylbenzene	0.168	1	79-123	< 30%
Methyl acetate	0.466	4		< 30%
methyl cyclohexane	0.699	4		< 30%
Methylene chloride	2.000	5	71-115	< 30%
Methyl-tert-butyl ether	0.104	2	66-113	< 30%
Naphthalene	0.138	4	73-114	< 30%
n-Butylbenzene	0.198	1	72-128	< 30%
n-Propylbenzene	0.126	1	73-125	< 30%
o-Xylene	0.271	2	82-125	< 30%
p/m-Xylene	0.323	2	83-120	< 30%
p-diethylbenzene	0.160	4	70-130	< 30%
p-Isopropyltoluene	0.125	1	84-126	< 30%
sec-Butylbenzene	0.206	1	73-123	< 30%
Styrene	0.309	2	85-121	< 30%

VOCs in Soil - High EPA 8260B				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
Bromodichloromethane	11.45	50	80-115	< 30%
Bromoform	20.74	200	75-124	< 30%
Bromomethane	16.90	100	57-147	< 30%
Carbon disulfide	55.06	200	59-112	< 30%
Carbon tetrachloride	10.51	50	75-123	< 30%
Chlorobenzene	17.38	50	75-125	< 30%
Chlorodibromomethane	15.39	50	79-116	< 30%
Chloroethane	15.80	100	50-151	< 30%
Chloroform	18.51	75	78-114	< 30%
Chloromethane	39.16	200	52-120	< 30%
cis-1,2-Dichloroethene	7.47	50	85-117	< 30%
cis-1,3-Dichloropropene	6.36	50	77-110	< 30%
Cyclohexane	31.26	1000	81-116	< 30%
Dibromomethane	8.18	200	30-146	< 30%
Dichlorodifluoromethane	10.91	500	81-121	< 30%
Diisopropyl ether	6.98	200		< 30%
Ethyl Acetate	40.97	1000	67-129	
Ethyl benzene	7.37	50	70-130	< 30%
Ethyl ether	13.28	250	67-126	< 30%
Ethyl methacrylate	8.38	500	79-123	< 30%
Ethyl-Tert-Butyl-Ether	21.16	200		< 30%
Freon-113	13.66	200	70-130	< 30%
Hexachlorobutadiene	21.12	200	71-115	< 30%
Isopropylbenzene	8.38	50	66-113	< 30%
Methyl Acetate	23.30	200	73-114	< 30%
methyl cyclohexane	34.97	200	72-128	< 30%
Methylene chloride	100.00	250	73-125	< 30%
Methyl-tert-butyl ether	5.21	100	82-125	< 30%
Naphthalene	38.48	200	83-120	< 30%
n-Butylbenzene	9.88	50	84-126	< 30%
n-Propylbenzene	6.29	50	73-123	< 30%
o-Xylene	13.54	100	85-121	< 30%
p/m-Xylene	16.13	100	78-119	< 30%
p-Diethylbenzene	7.99	200	82-122	< 30%
p-Isopropyltoluene	9.56	50	66-111	< 30%
sec-Butylbenzene	10.29	50	75-125	< 30%
Styrene	15.47	100	78-113	< 30%

VOCs in Soil - Low EPA 8260B				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
Tert-Butyl Alcohol	0.907	20		< 30%
tert-Butylbenzene	0.561	4	78-119	< 30%
Tertiary-amyl methyl ether	0.576	4	76-117	< 30%
Tetrachloroethene	0.140	1	82-122	< 30%
Tetrahydrofuran	0.375	4	66-111	< 30%
Toluene	0.112	1.5	75-125	< 30%
trans-1,2-Dichloroethene	0.212	1.5	78-113	< 30%
trans-1,3-Dichloropropene	0.121	1	77-119	< 30%
trans-1,4-Dichloro-2-butene	0.448	5	70-130	< 30%
Trichloroethene	0.152	1	75-125	< 30%
Trichlorofluoromethane	0.121	4	73-139	< 30%
Vinyl Acetate	0.480	10	70-130	< 30%
Vinyl chloride	0.082	2	67-121	< 30%

Surrogate(s)	% Recovery
dibromofluoromethane	70-130%
1,2-dichloroethane-d4	70-130%
toluene-d8	70-130%
4-bromofluorobenzene	70-130%

* Curly 2005, Charlie 2010. VOA100 2011, VOA 104 2011 - Highest MDL

VOCs in Soil - High EPA 8260B				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
Tert-Butyl Alcohol	45.37	1000		< 30%
tert-Butylbenzene	28.04	200	77-119	< 30%
Tertiary-Amyl Methyl Ether	28.80	200	76-117	< 30%
Tetrachloroethene	7.01	50	70-130	< 30%
Tetrahydrofuran	18.75	200	75-125	< 30%
Toluene	5.60	75	73-139	< 30%
trans-1,2-Dichloroethene	10.58	75	70-130	< 30%
trans-1,3-Dichloropropene	6.04	50	67-121	< 30%
trans-1,4-Dichloro-2-butene	19.58	250	79-113	< 30%
Trichloroethene	7.61	50	65-135	< 30%
Trichlorofluoromethane	6.07	200	75-119	< 30%
Vinyl acetate	23.98	500	78-121	< 30%
Vinyl chloride	7.06	100	73-114	< 30%

Surrogate(s)	% Recovery
dibromofluoromethane	70-130%
1,2-dichloroethane-d4	70-130%
toluene-d8	70-130%
4-bromofluorobenzene	70-130%

* Curly 2005, Charlie 2010. VOA100 2011, VOA 104 2011 - Highest MDL

VOCs in Liquid EPA 8260B				
Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
1,1,1,2-Tetrachloroethane	0.165	0.5	64-125	< 20%
1,1,1-Trichloroethane	0.158	0.5	67-123	< 20%
1,1,2,2-Tetrachloroethane	0.192	0.5	67-124	< 20%
1,1,2-Trichloroethane	0.261	0.75	70-125	< 20%
1,1-Dichloroethane	0.181	0.75	73-119	< 20%
1,1-Dichloroethene	0.216	0.5	61-145	< 20%
1,1-Dichloropropene	0.256	2.5	72-118	< 20%
1,2,3-Trichlorobenzene	0.234	2.5	75-125	< 20%
1,2,3-Trichloropropane	0.428	5	64-127	< 20%
1,2,4,5-Tetramethylbenzene	0.542	2		< 20%
1,2,4-Trichlorobenzene	0.220	2.5	75-125	< 20%
1,2,4-Trimethylbenzene	0.191	2.5	75-121	< 20%
1,2-Dibromo-3-chloropropane	0.650	2.5	41-144	< 20%
1,2-Dibromoethane	0.202	2	70-119	< 20%
1,2-Dichlorobenzene	0.184	2.5	75-125	< 20%
1,2-Dichloroethane	0.160	0.5	71-125	< 20%
1,2-Dichloropropane	0.296	1.75	70-120	< 20%
1,3,5-trichlorobenzene	0.109	2		< 20%
1,3,5-Trimethylbenzene	0.211	2.5	64-121	< 20%
1,3-Dichlorobenzene	0.186	2.5	75-125	< 20%
1,3-Dichloropropane	0.212	2.5	71-122	< 20%
1,4-Dichloro-2-butane	0.464	5		< 20%
1,4-Dichlorobenzene	0.215	2.5	75-125	< 20%
1,4-Dioxane	75.706	250	56-162	< 20%
2,2-Dichloropropane	0.204	2.5	63-133	< 20%
2-Butanone	1.939	5	63-138	< 20%
2-Chloroethylvinyl ether	0.402	10	75-125	< 20%
2-Chlorotoluene	0.182	2.5	75-125	< 20%
2-Hexanone	0.578	5	57-128	< 20%
4,-Methy-2-pentanone	0.824	5	59-126	< 20%
4-Chlorotoluene	0.185	2.5	75-125	< 20%
4-Ethyltoluene	0.340	2		< 20%
Acetone	1.561	5	58-148	< 20%
Acrylonitrile	0.430	5	70-102	< 20%
Benzene	0.194	0.5	76-127	< 20%
Bromobenzene	0.184	2.5	75-125	< 20%
Bromochloromethane	0.329	2.5	74-123	< 20%

VOCs in Liquid EPA 8260B				
Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
Bromodichloromethane	0.192	0.5	67-121	< 20%
Bromoform	0.277	2	54-136	< 20%
Bromomethane	0.256	1	39-139	< 20%
Carbon disulfide	0.299	5	51-121	< 20%
Carbon tetrachloride	0.165	0.5	63-132	< 20%
Chlorobenzene	0.192	0.5	75-130	< 20%
Chlorodibromomethane	0.189	0.5	63-119	< 20%
Chloroethane	0.233	1	55-138	< 20%
Chloroform	0.198	0.75	75-125	< 20%
Chloromethane	0.281	2.5	64-130	< 20%
cis-1,2-Dichloroethene	0.187	0.5	75-125	< 20%
cis-1,3-Dichloropropene	0.144	0.5	75-125	< 20%
Cyclohexane	0.271	10		< 20%
Dibromomethane	0.363	5	76-126	< 20%
Dichlorodifluoromethane	0.300	5	36-147	< 20%
Diisopropyl Ether	0.165	2	75-125	< 20%
Ethyl acetate	0.716	10	75-125	< 20%
Ethyl benzene	0.171	0.5	79-118	< 20%
Ethyl ether	0.265	2.5	59-134	< 20%
Ethyl-methacrylate	0.606	5		< 20%
Ethyl-Tert-Butyl-Ether	0.382	2	75-125	< 20%
Freon -113	0.234	10	70-130	< 20%
Halothane	0.149	2	70-130	< 20%
Hexachlorobutadiene	0.230	0.5	63-123	< 20%
Isopropylbenzene	0.187	0.5	73-122	< 20%
Methyl Acetate	0.201	10		< 20%
Methyl cyclohexane	0.396	10		< 20%
Methylene chloride	0.289	5	74-121	< 20%
Methyl-tert-butyl ether	0.539	1	63-112	< 20%
Naphthalene	0.216	2.5	75-125	< 20%
n-Butylbenzene	0.196	0.5	53-136	< 20%
n-Propylbenzene	0.173	0.5	69-127	< 20%
o-Xylene	0.330	1	75-125	< 20%
p/m-Xylene	0.348	1	75-125	< 20%
p-Diethylbenzene	0.392	2		< 20%
p-Isopropyltoluene	0.188	0.5	73-127	< 20%
sec-Butylbenzene	0.181	0.5	70-124	< 20%

VOCs in Liquid EPA 8260B				
Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
Styrene	0.366	1	70-122	< 20%
Tert butyl Alcohol	0.402	10	80-129	< 20%
tert-Butylbenzene	0.215	2.5	70-122	< 20%
Tertiary-Amyl Methyl Ether	0.184	2	66-124	< 20%
Tetrachloroethene	0.181	0.5	70-130	< 20%
Tetrahydrofuran	1.299	5	58-123	< 20%
Toluene	0.227	0.75	76-125	< 20%
trans-1,2-Dichloroethene	0.202	0.75	75-125	< 20%
trans-1,3-Dichloropropene	0.164	0.5	75-125	< 20%
trans-1,4-Dichloro-2-butene	0.173	2.5	70-118	< 20%
Trichloroethene	0.175	0.5	71-120	< 20%
Trichlorofluoromethane	0.280	2.5	62-150	< 20%
Vinyl acetate	0.304	5	83-124	< 20%
Vinyl chloride	0.268	1	55-140	< 20%

Surrogate(s)	% Recovery
dibromofluoromethane	70-130%
1,2-dichloroethane-d4	70-130%
toluene-d8	70-130%
4-bromofluorobenzene	70-130%

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SVOCs in Soil - EPA 8270

Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
1,2,4,5-Tetrachlorobenzene	26.675	167	40-117%	< 50%
1,2,4-Trichlorobenzene	30.785	167	38-107%	< 50%
1,2-Dichlorobenzene	27.116	167	40-140%	< 50%
1,3-Dichlorobenzene	30.215	167	40-140%	< 50%
1,4-Dichlorobenzene	34.472	167	28-104%	< 50%
1-chloro-2-nitrobenzene	53.670	167		< 50%
1-Methylnaphthalene	34.217	167		< 50%
2,3,4,6-Tetrachlorophenol	41.946	167		< 50%
2,4,5-Trichlorophenol	54.135	167	30-130%	< 50%
2,4,6-Trichlorophenol	31.489	100	30-130%	< 50%
2,4-Dichlorophenol	29.371	150	30-130%	< 50%
2,4-Dimethylphenol	49.877	167	30-130%	< 50%
2,4-Dinitrophenol	228.543	800	4-130%	< 50%
2,4-Dinitrotoluene	26.784	167	28-89%	< 50%
2,6-Dinitrotoluene	37.981	167	40-140%	< 50%
2-Chloroaniline	29.878	167		< 50%
2-Chloronaphthalene	28.888	167	40-140%	< 50%
2-Chlorophenol	37.444	167	25-102%	< 50%
2-Methylnaphthalene	29.332	200	40-140%	< 50%
2-Methylphenol	40.939	167	30-130%	< 50%
2-Nitroaniline	47.003	167	47-134%	< 50%
2-Nitrophenol	29.064	360	30-130%	< 50%
3,3'-Dichlorobenzidine	36.082	167	40-140%	< 50%
3,3'-Dimethylbenzidine	103.735	330	15-115%	< 50%
3-Chloroaniline	50.654	250		< 50%
3-Methylphenol/4-Methylphen	42.574	233	30-130%	< 50%
3-Nitroaniline	46.110	167	26-129%	< 50%
4,6-Dinitro-o-cresol	61.225	433	10-130%	< 50%
4-Bromophenyl phenyl ether	38.428	167	40-140%	< 50%
4-Chloroaniline	44.207	167	40-140%	< 50%
4-Chlorophenyl phenyl ether	32.996	167	40-140%	< 50%
4-Nitroaniline	44.944	333	41-125%	< 50%
4-Nitrophenol	54.158	233	11-114%	< 50%
Acenaphthene	34.490	133	31-137%	< 50%
Acenaphthylene	31.238	133	40-140%	< 50%

SVOCs in Liquid EPA 8270

Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
1,2,4,5-Tetrachlorobenzene	0.652	10	2-134%	< 30%
1,2,4-Trichlorobenzene	0.669	5	39-98%	< 30%
1,2-Dichlorobenzene	0.547	2	40-140%	< 30%
1,3-Dichlorobenzene	0.550	2	40-140%	< 30%
1,4-Dichlorobenzene	0.551	2	36-97%	< 30%
1-chloro-2-nitrobenzene	0.634	5		< 30%
1-Methylnaphthalene	0.636	2		< 30%
2,3,4,6-Tetrachlorophenol	0.654	5		< 30%
2,4,5-Trichlorophenol	0.447	5	30-130%	< 30%
2,4,6-Trichlorophenol	0.448	5	30-130%	< 30%
2,4-Dichlorophenol	0.429	5	30-130%	< 30%
2,4-Dimethylphenol	1.243	5	30-130%	< 30%
2,4-Dinitrophenol	1.408	20	20-130%	< 30%
2,4-Dinitrotoluene	0.446	5	24-96%	< 30%
2,6-Dinitrotoluene	0.459	5	40-140%	< 30%
2-Chloroaniline	0.349	5		< 30%
2-Chloronaphthalene	0.474	2	40-140%	< 30%
2-Chlorophenol	0.340	2	27-123%	< 30%
2-Methylnaphthalene	0.548	2	40-140%	< 30%
2-Methylphenol	0.528	5	30-130%	< 30%
2-Nitroaniline	0.398	5	52-143%	< 30%
2-Nitrophenol	0.475	10	30-130%	< 30%
3,3'-Dichlorobenzidine	0.852	5	40-140%	< 30%
3-Chloroaniline	1.119	10		< 30%
3-Methylphenol/4-Methylphen	0.471	5	30-130%	< 30%
3-Nitroaniline	0.590	5	25-145%	< 30%
4,6-Dinitro-o-cresol	0.587	10	20-164%	< 30%
4-Bromophenyl phenyl ether	0.674	2	40-140%	< 30%
4-Chloroaniline	0.829	5	40-140%	< 30%
4-Chlorophenyl phenyl ether	0.611	2	40-140%	< 30%
4-Nitroaniline	0.551	5	51-143%	< 30%
4-Nitrophenol	1.224	10	10-80%	< 30%
Acenaphthene	0.547	2	37-111%	< 30%
Acenaphthylene	0.503	2	45-123%	< 30%
Acetophenone	0.552	5	39-129%	< 30%

SVOCs in Soil - EPA 8270				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
Acetophenone	37.894	167	14-144%	< 50%
Aniline	34.039	200	40-140%	< 50%
Anthracene	27.776	100	40-140%	< 50%
a-Terpineol	41.094	167		< 50%
Atrazine	27.121	133		< 50%
Azobenzene	33.369	167		< 50%
Benzaldehyde	43.827	220		< 50%
Benzidine	95.442	567		< 50%
Benzo(a)anthracene	30.452	100	40-140%	< 50%
Benzo(a)pyrene	28.618	133	40-140%	< 50%
Benzo(b)fluoranthene	29.970	100	40-140%	< 50%
Benzo(ghi)perylene	33.842	133	40-140%	< 50%
Benzo(k)fluoranthene	31.868	100	40-140%	< 50%
Benzoic acid	145.546	540		< 50%
Benzyl alcohol	38.665	167	40-140%	< 50%
Biphenyl	27.338	380		< 50%
Bis(2-chloroethoxy)methane	33.111	180	40-117%	< 50%
Bis(2-chloroethyl)ether	26.237	150	40-140%	< 50%
Bis(2-chloroisopropyl)ether	36.058	200	40-140%	< 50%
Bis(2-ethylhexyl)phthalate	39.445	167	40-140%	< 50%
Butyl benzyl phthalate	32.642	167	40-140%	< 50%
Caprolactam	46.218	167		< 50%
Carbazole	30.943	167	54-128%	< 50%
Chrysene	32.791	100	40-140%	< 50%
Dibenzo(a,h)anthracene	31.286	100	40-140%	< 50%
Dibenzofuran	29.473	167	40-140%	< 50%
Dichloran	42.675	180		< 50%
Diethyl phthalate	27.814	167	40-140%	< 50%
Dimethyl phthalate	26.863	167	40-140%	< 50%
Di-n-butylphthalate	32.243	167	40-140%	< 50%
Di-n-octylphthalate	37.623	167	40-140%	< 50%
Diphenamid	30.883	167		< 50%
Fluoranthene	28.309	100	40-140%	< 50%
Fluorene	32.401	167	40-140%	< 50%
Hexachlorobenzene	28.923	100	40-140%	< 50%

SVOCs in Liquid EPA 8270				
Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
Aniline	0.465	2	40-140%	< 30%
Anthracene	0.473	2	40-140%	< 30%
a-Terpineol	0.460	5		< 30%
Atrazine	2.248	10		< 30%
Azobenzene	0.576	2	40-140%	< 30%
Benzaldehyde	0.596	5		< 30%
Benzo(a)anthracene	0.822	2	40-140%	< 30%
Benzo(a)pyrene	0.484	2	40-140%	< 30%
Benzo(b)fluoranthene	0.483	2	40-140%	< 30%
Benzo(ghi)perylene	0.531	2	40-140%	< 30%
Benzo(k)fluoranthene	0.486	2	40-140%	< 30%
Benzoic acid	1.010	50		< 30%
Benzyl alcohol	0.473	2		< 30%
Biphenyl	0.502	2		< 30%
Bis(2-chloroethoxy)methane	0.399	5	40-140%	< 30%
Bis(2-chloroethyl)ether	0.387	2	40-140%	< 30%
Bis(2-chloroisopropyl)ether	0.504	2	40-140%	< 30%
Bis(2-ethylhexyl)phthalate	1.400	3	40-140%	< 30%
Butyl benzyl phthalate	0.459	5	40-140%	< 30%
Caprolactam	0.389	10		< 30%
Carbazole	0.529	2	55-144%	< 30%
Chrysene	0.562	2	40-140%	< 30%
Dibenzo(a,h)anthracene	0.484	2	40-140%	< 30%
Dibenzofuran	0.473	2	40-140%	< 30%
Dichloran	0.700	5		< 30%
Diethyl phthalate	0.451	5	40-140%	< 30%
Dimethyl phthalate	0.449	5	40-140%	< 30%
Di-n-butylphthalate	0.543	5	40-140%	< 30%
Di-n-octylphthalate	0.533	5	40-140%	< 30%
Diphenamid	0.577	5		< 30%
Fluoranthene	0.510	2	40-140%	< 30%
Fluorene	0.490	2	40-140%	< 30%
Hexachlorobenzene	0.646	2	40-140%	< 30%
Hexachlorobutadiene	0.810	2	40-140%	< 30%
Hexachlorocyclopentadiene	2.060	20	40-140%	< 30%

SVOCs in Soil - EPA 8270				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
Hexachlorobutadiene	36.213	167	40-140%	< 50%
Hexachlorocyclopentadiene	107.246	478	40-140%	< 50%
Hexachloroethane	30.375	133	40-140%	< 50%
Indeno(1,2,3-cd)pyrene	37.047	133	40-140%	< 50%
Isophorone	35.539	150	40-140%	< 50%
m-Toluidine	29.069	300		< 50%
Naphthalene	36.149	167	40-140%	< 50%
Nitrobenzene	35.214	133	40-140%	< 50%
NDPA/DPA	39.719	150		< 50%
n-Nitrosodimethylamine	26.621	333		< 50%
n-Nitrosodi-n-propylamine	35.898	167	32-121%	< 50%
p-Chloro-m-cresol	40.262	167	26-103%	< 50%
Pentachloronitrobenzene	44.458	150	42-153%	< 50%
Pentachlorophenol	35.691	133	17-109%	< 50%
Phenanthrene	27.307	100	40-140%	< 50%
Phenol	40.882	167	26-90%	< 50%
Pyrene	30.097	100	35-142%	< 50%
Pyridine	37.303	667	10-93%	< 50%

Surrogate(s)	% Recovery
2,4,6-Tribromophenol	0-136%
2-Fluorobiphenyl	30-120%
2-Fluorophenol	25-120%
4-Terphenyl-d14	18-120%
Nitrobenzene-d5	23-120%
Phenol-d6	10-120%

* Buffy '12, GCMS5 '12, GCMS7 '12, Juliet '12,
SV103 '12 - Highest MDL
30-gram Extraction

SVOCs in Liquid EPA 8270				
Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
Hexachloroethane	0.665	2	40-140%	< 30%
Indeno(1,2,3-cd)pyrene	0.477	2	40-140%	< 30%
Isophorone	0.349	5	40-140%	< 30%
m-Toluidine	0.588	10		< 30%
Naphthalene	0.725	2	40-140%	< 30%
Nitrobenzene	0.701	2	40-140%	< 30%
NDPA/DPA	0.505	2	40-140%	< 30%
n-Nitrosodimethylamine	0.554	2		< 30%
n-Nitrosodi-n-propylamine	0.392	5	29-132%	< 30%
p-Chloro-m-cresol	0.500	2	23-97%	< 30%
Pentachlorophenol	1.215	10	9-103%	< 30%
Phenanthrene	0.488	2	40-140%	< 30%
Phenol	0.265	5	12-110%	< 30%
Pyrene	0.438	2	26-127%	< 30%
Pyridine	0.649	5	10-66%	< 30%

Surrogate(s)	% Recovery
2,4,6-Tribromophenol	10-120%
2-Fluorobiphenyl	15-120%
2-Fluorophenol	21-120%
4-Terphenyl-d14	33-120%
Nitrobenzene-d5	23-120%
Phenol-d6	10-120%

* GCMS5 '11, Buffy '11, Juliet '11, GCMS7 '11 - Highest MDL
2-Liter Extraction

SVOCs in Soil - EPA 8270SIM				
Analytes	MDL * ug/Kg	RL ug/Kg	LCS/MS % Rec	MS/MSD % RPD
1-Methylnaphthalene	0.911	6.67	40-140%	< 50%
2-Chloronaphthalene	1.762	6.67	40-140%	< 50%
2-Methylnaphthalene	0.794	6.67	40-140%	< 50%
Acenaphthene	0.895	6.67	40-140%	< 50%
Acenaphthylene	0.801	6.67	40-140%	< 50%
Anthracene	0.901	6.67	40-140%	< 50%
Benzo (a) anthracene	1.041	6.67	40-140%	< 50%
Benzo (a) pyrene	1.542	6.67	40-140%	< 50%
Benzo (b) fluoranthene	1.587	6.67	40-140%	< 50%
Benzo (ghi) perylene	1.874	6.67	40-140%	< 50%
Benzo (k) fluoranthene	1.612	6.67	40-140%	< 50%
Chrysene	1.111	6.67	40-140%	< 50%
Dibenzo (a,h) anthracene	1.856	6.67	40-140%	< 50%
Fluoranthene	0.961	6.67	40-140%	< 50%
Fluorene	0.754	6.67	40-140%	< 50%
Hexachlorobenzene **	0.880	6.67	40-140%	< 50%
Hexachlorobutadiene	0.820	6.67	34-107%	< 50%
Hexachloroethane	0.877	6.67	29-106%	< 50%
Indeno (1,2,3-cd) pyrene	1.876	6.67	40-140%	< 50%
Naphthalene	0.909	6.67	40-140%	< 50%
Pentachlorophenol **	4.844	26.67	17-109%	< 50%
Phenanthrene	0.829	6.67	40-140%	< 50%
Pyrene	0.793	6.67	35-142%	< 50%

Surrogate(s)	% Recovery
2,4,6-Tribromophenol	0-136%
2-Fluorobiphenyl	30-120%
2-Fluorophenol	25-120%
4-Terphenyl-d14	18-120%
Nitrobenzene-d5	23-120%
Phenol-d6	10-120%

* Dakota '11, Mork '11, Mindy '12 MW
Mork '12, Dakota '12 SOX - Highest MDL
30 gram Extraction

SVOCs in Liquid EPA 8270SIM				
Analytes	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD % RPD
1-Methylnaphthalene	0.0560	0.2	40-140%	< 40%
2-Chloronaphthalene	0.0660	0.2	40-140%	< 40%
2-Methylnaphthalene	0.0600	0.2	40-140%	< 40%
Acenaphthene	0.0640	0.2	37-111%	< 40%
Acenaphthylene	0.0500	0.2	40-140%	< 40%
Anthracene	0.0630	0.2	40-140%	< 40%
Benzo (a) anthracene	0.0570	0.2	40-140%	< 40%
Benzo (a) pyrene	0.0690	0.2	40-140%	< 40%
Benzo (b) fluoranthene	0.0710	0.2	40-140%	< 40%
Benzo (ghi) perylene	0.0700	0.2	40-140%	< 40%
Benzo (k) fluoranthene	0.0680	0.2	40-140%	< 40%
Chrysene	0.0490	0.2	40-140%	< 40%
Dibenzo (a,h) anthracene	0.0730	0.2	40-140%	< 40%
Fluoranthene	0.0430	0.2	40-140%	< 40%
Fluorene	0.0570	0.2	40-140%	< 40%
Hexachlorobenzene **	0.0139	0.8	40-140%	< 40%
Hexachlorobutadiene	0.0710	0.2	40-140%	< 40%
Hexachloroethane	0.0650	0.2	40-140%	< 40%
Indeno (1,2,3-cd) pyrene	0.0790	0.2	40-140%	< 40%
Naphthalene	0.0640	0.2	40-140%	< 40%
Pentachlorophenol **	0.1875	0.8	9-103%	< 40%
Phenanthrene	0.0640	0.2	40-140%	< 40%
Pyrene	0.0570	0.2	26-127%	< 40%

Surrogate(s)	% Recovery
2,4,6-Tribromophenol	10-120%
2-Fluorobiphenyl	15-120%
2-Fluorophenol	21-120%
4-Terphenyl-d14	33-120%
Nitrobenzene-d5	23-120%
Phenol-d6	10-120%

* Mork'08, Mindy '08, Dakota '08 - highest MDL
** Mork '10, Mindy '10, Dakota '10 - Highest MDL

Alpha Analytical Inc.
Standard Reporting Limits
Westborough, MA

Trace Metals Liquid -EPA 6010B				
Element	MDL * mg/L	RL mg/L	LCS % Rec	MS/MSD %Rec/RPD
Aluminum	0.022277	0.1	80-120%	75-125%/ <20%
Antimony	0.009563	0.05	80-120%	75-125%/ <20%
Arsenic	0.003423	0.005	80-120%	75-125%/ <20%
Barium	0.002734	0.01	80-120%	75-125%/ <20%
Beryllium	0.00035	0.005	80-120%	75-125%/ <20%
Boron	0.008154	0.03	80-120%	75-125%/ <20%
Cadmium	0.000635	0.005	80-120%	75-125%/ <20%
Calcium	0.0217	0.1	80-120%	75-125%/ <20%
Chromium	0.00203	0.01	80-120%	75-125%/ <20%
Cobalt	0.004856	0.02	80-120%	75-125%/ <20%
Copper	0.004642	0.01	80-120%	75-125%/ <20%
Iron	0.0173	0.05	80-120%	75-125%/ <20%
Lead	0.002802	0.01	80-120%	75-125%/ <20%
Magnesium	0.044941	0.1	80-120%	75-125%/ <20%
Manganese	0.002445	0.01	80-120%	75-125%/ <20%
Molybdenum	0.011358	0.05	80-120%	75-125%/ <20%
Nickel	0.003945	0.025	80-120%	75-125%/ <20%
Potassium	0.798578	2.5	80-120%	75-125%/ <20%
Selenium	0.003277	0.01	80-120%	75-125%/ <20%
Silicon	0.139321	0.5	80-120%	75-125%/ <20%
Silver	0.002008	0.007	80-120%	75-125%/ <20%
Sodium	0.7952	2	80-120%	75-125%/ <20%
Strontium	0.001915	0.01	80-120%	75-125%/ <20%
Thallium	0.006234	0.02	80-120%	75-125%/ <20%
Tin	0.010996	0.05	80-120%	75-125%/ <20%
Titanium	0.001891	0.01	80-120%	75-125%/ <20%
Vanadium	0.002229	0.01	80-120%	75-125%/ <20%
Zinc	0.005409	0.05	80-120%	75-125%/ <20%

Trace Metals Soil - EPA 6010B				
Element	MDL mg/Kg	RL mg/Kg	LCS/MS % Rec	MSD RPD
Aluminum	0.891088	4	75-125%	< 35%
Antimony	0.382505	2	75-125%	< 35%
Arsenic	0.136903	0.4	75-125%	< 35%
Barium	0.109346	0.4	75-125%	< 35%
Beryllium	0.014004	0.2	75-125%	< 35%
Boron	0.326175	1.2	75-125%	< 35%
Cadmium	0.025396	0.4	75-125%	< 35%
Calcium	0.868	4	75-125%	< 35%
Chromium	0.081206	0.4	75-125%	< 35%
Cobalt	0.194223	0.8	75-125%	< 35%
Copper	0.185684	0.4	75-125%	< 35%
Iron	0.692	2	75-125%	< 35%
Lead	0.112074	2	75-125%	< 35%
Magnesium	1.797658	4	75-125%	< 35%
Manganese	0.097792	0.4	75-125%	< 35%
Molybdenum	0.454302	2	75-125%	< 35%
Nickel	0.157813	1	75-125%	< 35%
Potassium	31.94312	100	75-125%	< 35%
Selenium	0.13108	0.8	75-125%	< 35%
Silicon	N/A	N/A	N/A	N/A
Silver	0.080313	0.4	75-125%	< 35%
Sodium	31.808	80	75-125%	< 35%
Strontium	0.07662	2	75-125%	< 35%
Thallium	0.249359	0.8	75-125%	< 35%
Tin	0.439823	4	75-125%	< 35%
Titanium	0.075652	0.4	75-125%	< 35%
Vanadium	0.089178	0.4	75-125%	< 35%
Zinc	0.216342	2	75-125%	< 35%

* Trace 3 '09 & Trace 4 '09, Trace 5 '12 - highest MDL

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Trace Metals Liquid - EPA 6020				
Element	MDL * ug/L	RL ug/L	LCS/MS % Rec	MS/MSD %Rec/RPD
Aluminum	1.945737	10	80-120%	< 20%
Antimony	0.11186	0.5	80-120%	< 20%
Arsenic	0.161049	0.5	80-120%	< 20%
Barium	0.078126	0.5	80-120%	< 20%
Beryllium	0.124308	0.5	80-120%	< 20%
Cadmium	0.049833	0.2	80-120%	< 20%
Calcium	32.07137	100	80-120%	< 20%
Chromium	0.150481	1	80-120%	< 20%
Cobalt	0.023759	0.2	80-120%	< 20%
Copper	0.108009	1	80-120%	< 20%
Iron	12.49011	50	80-120%	< 20%
Lead	0.166202	1	80-120%	< 20%
Magnesium	23.38641	70	80-120%	< 20%
Manganese	0.136177	0.5	80-120%	< 20%
Molybdenum	0.166736	0.5	80-120%	< 20%
Nickel	0.079984	0.5	80-120%	< 20%
Potassium	27.03	100	80-120%	< 20%
Selenium	0.271706	5	80-120%	< 20%
Silver	0.077899	0.25	80-120%	< 20%
Sodium	14.71076	100	80-120%	< 20%
Thallium	0.028279	0.2	80-120%	< 20%
Tin **	0.06086	0.5	80-120%	< 20%
Vanadium	0.136343	5	80-120%	< 20%
Zinc	1.189299	10	80-120%	< 20%

* ICPMS '11, ICPMSX '11 - Highest MDL
** ICPMSX '12

Trace Metals Soil - EPA 6020				
Element	MDL mg/Kg	RL mg/Kg	LCS/MS % Rec	MSD RPD
Aluminum	0.084585	10	75-125%	< 20%
Antimony	0.001459	0.05	75-125%	< 20%
Arsenic	0.006863	0.05	75-125%	< 20%
Barium	0.00133	0.3	75-125%	< 20%
Beryllium	0.006215	0.03	75-125%	< 20%
Cadmium	0.002492	0.02	75-125%	< 20%
Calcium	1.707592	50	75-125%	< 20%
Chromium	0.00654	0.2	75-125%	< 20%
Cobalt	0.000929	0.05	75-125%	< 20%
Copper	0.00302	0.2	75-125%	< 20%
Iron	0.602445	20	75-125%	< 20%
Lead	0.003817	0.06	75-125%	< 20%
Magnesium	0.041379	10	75-125%	< 20%
Manganese	0.006241	0.2	75-125%	< 20%
Molybdenum	0.003472	0.05	75-125%	< 20%
Nickel	0.003785	0.1	75-125%	< 20%
Potassium	0.566647	10	75-125%	< 20%
Selenium	0.012551	0.2	75-125%	< 20%
Silver	0.00205	0.05	75-125%	< 20%
Sodium	0.630053	15	75-125%	< 20%
Thallium	0.000577	0.02	75-125%	< 20%
Tin	0.002434	0.02	75-125%	< 20%
Vanadium	0.005657	0.1	75-125%	< 20%
Zinc	0.059465	1	75-125%	< 20%

Alpha Analytical Inc.
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Mercury Liquid - EPA 245.1 & 7470A				
Element	MDL * mg/L	RL mg/L	LCS % Rec	MS/MSD %Rec/RPD
Mercury	0.0000631	0.0002	80-120% - 7470A 85-115% - 245.1	70-130%/ <20%

* FIMS3 '11 & FIMS4 '11 - MDL

Mercury Soil - EPA 7471A				
Element	MDL mg/Kg	RL mg/Kg	LCS/MS % Rec	MS/MSD %Rec/RPD
Mercury	0.017642	0.08	80-120%	70-130% / < 20%

* FIMS3 '10 & FIMS4 '10 - Highest MDL

Alpha Analytical Inc.
Standard Reporting Limits
Westborough, MA

Wet Chemistry Parameters -Soil-							
Parameter	Method	MDL	RL	(units)	Accuracy LCS/MS	MS/DUP RPD	MDL Instrument and Date
Cyanide-total	EPA 9010B	0.234	1	mg/Kg	80-120% / 65-135%	< 40%	Lachat Nick 2012
Cyanide-total	SM 4500CN-CE	0.234	1	mg/Kg	90-110% / 90-110%	< 35%	Lachat Nick 2012

Alpha Analytical TO-15 Full Scan; Standard NY List

Analyte	CAS #	RL	MDL	Units	LCS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
1,1,1-Trichloroethane	71-55-6	0.2	0.057	ppbV	70-130	25	25	
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.0548	ppbV	70-130	25	25	
1,1,2-Trichloroethane	79-00-5	0.2	0.0667	ppbV	70-130	25	25	
1,1-Dichloroethane	75-34-3	0.2	0.0771	ppbV	70-130	25	25	
1,1-Dichloroethene	75-35-4	0.2	0.0566	ppbV	70-130	25	25	
1,2,4-Trichlorobenzene	120-82-1	0.2	0.0611	ppbV	70-130	25	25	
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0694	ppbV	70-130	25	25	
1,2-Dibromoethane	106-93-4	0.2	0.0779	ppbV	70-130	25	25	
1,2-Dichlorobenzene	95-50-1	0.2	0.0614	ppbV	70-130	25	25	
1,2-Dichloroethane	107-06-2	0.2	0.0552	ppbV	70-130	25	25	
1,2-Dichloropropane	78-87-5	0.2	0.0697	ppbV	70-130	25	25	
1,3,5-Trimethylbenzene	108-67-8	0.2	0.0584	ppbV	70-130	25	25	
1,3-Butadiene	106-99-0	0.2	0.0799	ppbV	70-130	25	25	
1,3-Dichlorobenzene	541-73-1	0.2	0.0637	ppbV	70-130	25	25	
1,4-Dichlorobenzene	106-46-7	0.2	0.0361	ppbV	70-130	25	25	
1,4-Dioxane	123-91-1	0.2	0.078	ppbV	70-130	25	25	
2,2,4-Trimethylpentane	540-84-1	0.2	0.0659	ppbV	70-130	25	25	
2-Butanone	78-93-3	0.2	0.0472	ppbV	70-130	25	25	
2-Hexanone	591-78-6	0.2	0.0604	ppbV	70-130	25	25	
3-Chloropropene	107-05-1	0.2	0.0812	ppbV	70-130	25	25	
4-Ethyltoluene	622-96-8	0.2	0.0776	ppbV	70-130	25	25	
Acetone	67-64-1	1	0.165	ppbV	70-130	25	25	
Benzene	71-43-2	0.2	0.0537	ppbV	70-130	25	25	
Benzyl chloride	100-44-7	0.2	0.0645	ppbV	70-130	25	25	
Bromodichloromethane	75-27-4	0.2	0.0656	ppbV	70-130	25	25	
Bromoform	75-25-2	0.2	0.0523	ppbV	70-130	25	25	
Bromomethane	74-83-9	0.2	0.0696	ppbV	70-130	25	25	
Carbon disulfide	75-15-0	0.2	0.0345	ppbV	70-130	25	25	
Carbon tetrachloride	56-23-5	0.2	0.0471	ppbV	70-130	25	25	
Chlorobenzene	108-90-7	0.2	0.0789	ppbV	70-130	25	25	
Chloroethane	75-00-3	0.2	0.0767	ppbV	70-130	25	25	
Chloroform	67-66-3	0.2	0.0531	ppbV	70-130	25	25	
Chloromethane	74-87-3	0.2	0.0958	ppbV	70-130	25	25	
cis-1,2-Dichloroethene	156-59-2	0.2	0.0587	ppbV	70-130	25	25	
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0745	ppbV	70-130	25	25	
Cyclohexane	110-82-7	0.2	0.0656	ppbV	70-130	25	25	
Dibromochloromethane	124-48-1	0.2	0.0747	ppbV	70-130	25	25	
Dichlorodifluoromethane	75-71-8	0.2	0.0466	ppbV	70-130	25	25	
Ethyl Alcohol	GCDAI06	2.5	0.542	ppbV	70-130	25	25	
Ethyl Acetate	141-78-6	0.5	0.131	ppbV	70-130	25	25	
Ethylbenzene	100-41-4	0.2	0.0555	ppbV	70-130	25	25	
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0511	ppbV	70-130	25	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0419	ppbV	70-130	25	25	
Hexachlorobutadiene	87-68-3	0.2	0.0732	ppbV	70-130	25	25	
Iso-Propyl Alcohol	67-63-0	0.5	0.0525	ppbV	70-130	25	25	
Methylene chloride	75-09-2	1	0.299	ppbV	70-130	25	25	
4-Methyl-2-pentanone	108-10-1	0.2	0.0607	ppbV	70-130	25	25	
Methyl tert butyl ether	1634-04-4	0.2	0.0528	ppbV	70-130	25	25	
p/m-Xylene	179601-23-1	0.4	0.139	ppbV	70-130	25	25	
o-Xylene	95-47-6	0.2	0.0631	ppbV	70-130	25	25	
Xylene (Total)	1330-20-7	0.2	0.0631	ppbV	70-130	25	25	
Heptane	142-82-5	0.2	0.0553	ppbV	70-130	25	25	
n-Heptane	142-82-5	0.2	0.0553	ppbV	70-130	25	25	
n-Hexane	110-54-3	0.2	0.0518	ppbV	70-130	25	25	
Propylene	115-07-1	0.5	0.0929	ppbV	70-130	25	25	
Styrene	100-42-5	0.2	0.0799	ppbV	70-130	25	25	
Tetrachloroethene	127-18-4	0.2	0.0758	ppbV	70-130	25	25	
Tetrahydrofuran	109-99-9	0.2	0.0608	ppbV	70-130	25	25	
Toluene	108-88-3	0.2	0.0628	ppbV	70-130	25	25	
trans-1,2-Dichloroethene	156-60-5	0.2	0.074	ppbV	70-130	25	25	
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0693	ppbV	70-130	25	25	
Trichloroethene	79-01-6	0.2	0.071	ppbV	70-130	25	25	
Trichlorofluoromethane	75-69-4	0.2	0.0416	ppbV	70-130	25	25	
Vinyl acetate	108-05-4	0.2	0.0567	ppbV	70-130	25	25	
Vinyl bromide	593-60-2	0.2	0.0699	ppbV	70-130	25	25	
Vinyl chloride	75-01-4	0.2	0.0378	ppbV	70-130	25	25	
tert-Butyl Alcohol	75-65-0	0.5	0.0599	ppbV	70-130	25	25	
1,2-Dichloroethane-d4	*17060-07-0*	-						*70-130*
Toluene-d8	*2037-26-5*							*70-130*
Bromofluorobenzene	*460-00-4*							*70-130*

Please Note that the RL information provided in this table is calculated using a 100% Solids factor (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, In

Alpha Analytical TO-15 SIM; 7 NYS Decision Matrix Compounds; Standard NY List

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
1,1,1-Trichloroethane	71-55-6	0.02	0.007	ppbV	70-130	25		25	25	
1,1-Dichloroethene	75-35-4	0.02	0.007	ppbV	70-130	25		25	25	
Carbon tetrachloride	56-23-5	0.02	0.008	ppbV	70-130	25		25	25	
cis-1,2-Dichloroethene	156-59-2	0.02	0.0066	ppbV	70-130	25		25	25	
Tetrachloroethene	127-18-4	0.02	0.008	ppbV	70-130	25		25	25	
Trichloroethene	79-01-6	0.02	0.007	ppbV	70-130	25		25	25	
Vinyl chloride	75-01-4	0.02	0.007	ppbV	70-130	25		25	25	
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*
Toluene-d8	*2037-26-5*									*70-130*
Bromofluorobenzene	*460-00-4*									*70-130*

Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

APPENDIX B

Applicable QAPP Worksheets

**The worksheets included in this appendix were provided by Alpha Analytical Services as an example.*

QAPP Worksheet #12: Measurement Performance Criteria
(UFP-QAPP Manual Section 2.6.2)
(EPA 2106-G-05 Section 2.2.6)

Laboratory: Alpha Analytical, Westborough, MA
Matrix: Soils and Waters
Analytical Group or Method: 8260
Concentration Level: LOW

Data Quality Indicator (DQI)	**QC sample or measurement performance activity**	**Measurement Performance Criteria**
Analytical Precision (laboratory)	Laboratory Control Sample Duplicates	RPD ≤ 20%
Analytical Precision (laboratory)	Matrix Spike Duplicates (at client's request)	RPD ≤ 30%
Analytical Accuracy/Bias (laboratory)	Laboratory Control Samples	Generally, 70-130%R – analyte specific
Analytical Accuracy/Bias (matrix interference)	Matrix Spike/ Matrix Spike Duplicates (at client's request)	Generally, 40-140%R – analyte specific
Accuracy/Extraction efficiency	Surrogates	70-130%R
Overall accuracy/bias (contamination)	Method blank	No target compounds ≥ RL
Sensitivity	LOD verification (spiked at 1-4xDL)	Detected
Completeness	See Worksheet #34	See Worksheet #34

Laboratory: Alpha Analytical, Westborough, MA
Matrix: Soils and Waters
Analytical Group or Method: 8270
Concentration Level: LOW

Data Quality Indicator (DQI)	**QC sample or measurement performance activity**	**Measurement Performance Criteria**
Analytical Precision (laboratory)	Laboratory Control Sample Duplicates	RPD ≤ 50%
Analytical Precision (laboratory)	Matrix Spike Duplicates (at client's request)	RPD ≤ 50%
Analytical Accuracy/Bias (laboratory)	Laboratory Control Samples	Generally, 40-140%R for Base Neutrals; 30-130%R for Acids, analyte specific
Analytical Accuracy/Bias (matrix interference)	Matrix Spike/ Matrix Spike Duplicates (at client's request)	Generally, 40-140%R for Base Neutrals; 30-130%R for Acids, analyte specific
Accuracy/Extraction efficiency	Surrogates	Generally, 30-130%R, analyte specific
Overall accuracy/bias (contamination)	Method blank	No target compounds ≥ RL
Sensitivity	LOD verification (spiked at 1-4xDL)	Detected
Completeness	See Worksheet #34	See Worksheet #34

Laboratory: Alpha Analytical, Westborough, MA
Matrix: Soils and Waters
Analytical Group or Method: Herbicides
Concentration Level: LOW

Data Quality Indicator (DQI)	QC sample or measurement performance activity	Measurement Performance Criteria
Analytical Precision (laboratory)	Laboratory Control Sample Duplicates	RPD ≤ 25%
Analytical Precision (laboratory)	Matrix Spike Duplicates (at client's request)	RPD ≤ 30%
Analytical Accuracy/Bias (laboratory)	Laboratory Control Samples	30-150%R
Analytical Accuracy/Bias (matrix interference)	Matrix Spike/ Matrix Spike Duplicates (at client's request)	30-150%R
Accuracy/Extraction efficiency	Surrogates	30-150%R
Overall accuracy/bias (contamination)	Method blank	No target compounds ≥ RL
Sensitivity	LOD verification (spiked at 1-4xDL)	Detected
Completeness	See Worksheet #34	See Worksheet #34

Laboratory: Alpha Analytical, Westborough, MA
Matrix: Soils and Waters
Analytical Group or Method: Pesticides
Concentration Level: LOW

Data Quality Indicator (DQI)	QC sample or measurement performance activity	Measurement Performance Criteria
Overall Precision	Field Duplicates (at client's request)	RPD ≤ 30%
Analytical Precision (laboratory)	Matrix Spike Duplicates (at client's request)	RPD ≤ 30%
Analytical Accuracy/Bias (laboratory)	Laboratory Control Samples	30-150%R
Analytical Accuracy/Bias (matrix interference)	Matrix Spike/ Matrix Spike Duplicates (at client's request)	30-150%R
Accuracy/Extraction efficiency	Surrogates	30-150%R
Overall accuracy/bias (contamination)	Method blank	No target compounds ≥ RL
Sensitivity	LOD verification (spiked at 1-4xDL)	Detected
Completeness	See Worksheet #34	See Worksheet #34

Laboratory: Alpha Analytical, Westborough, MA
Matrix: Soils and Waters
Analytical Group or Method: PCBs
Concentration Level: LOW

Data Quality Indicator (DQI)	QC sample or measurement performance activity	Measurement Performance Criteria
Analytical Precision (laboratory)	Laboratory Control Sample Duplicates	RPD ≤ 30%
Analytical Precision (laboratory)	Matrix Spike Duplicates (at client's request)	RPD ≤ 30%
Analytical Accuracy/Bias (laboratory)	Laboratory Control Samples	40-140%R
Analytical Accuracy/Bias (matrix interference)	Matrix Spike/ Matrix Spike Duplicates (at client's request)	40-140%R
Accuracy/Extraction efficiency	Surrogates	30-150%R
Overall accuracy/bias (contamination)	Method blank	No target compounds ≥ RL
Sensitivity	LOD verification (spiked at 1-4xDL)	Detected
Completeness	See Worksheet #34	See Worksheet #34

Laboratory: Alpha Analytical, Westborough, MA
Matrix: Soils and Waters
Analytical Group or Method: Petro
Concentration Level: LOW

Data Quality Indicator (DQI)	**QC sample or measurement performance activity**	**Measurement Performance Criteria**
Analytical Precision (laboratory)	Laboratory Control Sample Duplicates	RPD ≤ 30%
Analytical Precision (laboratory)	Matrix Spike Duplicates (at client's request)	RPD ≤ 30%
Analytical Accuracy/Bias (laboratory)	Laboratory Control Samples	40-140%R
Analytical Accuracy/Bias (matrix interference)	Matrix Spike/ Matrix Spike Duplicates (at client's request)	40-140%R
Accuracy/Extraction efficiency	Surrogates	30-130%R
Overall accuracy/bias (contamination)	Method blank	No target compounds ≥ RL
Sensitivity	LOD verification (spiked at 1-4xDL)	Detected
Completeness	See Worksheet #34	See Worksheet #34

QAPP Worksheet #23: Analytical SOP's
(UFP-QAPP Manual Section 3.2.1)
(EPA 2106-G-05 Section 2.3.4)

Laboratory: Alpha Analytical, Westborough, MA

SOP #	Title, Date, and URL (if available)	Definitive or Screening Data	Matrix/Analytical Group	SOP Option or Equipment Type	‡Modified for Project? Y/N
2108	*Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)*	Definitive	Waters, Soils	GC/MS	
2111	*Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)*	Definitive	Waters, Soils	GC/MS	
2116	*Determination of Organochlorine Pesticides by Gas Chromatography/Electron Capture Detection (GC/ECD)*	Definitive	Waters, Soils	GC/ECD	
2129	*Determination of Polychlorinated Biphenyls (PCBs) as Aroclors by Gas Chromatography/Electron Capture Detection (GC/ECD)*	Definitive	Waters, Soils	GC/ECD	
2128	*Chlorinated Herbicides by GC Using Methylation Derivatization*	Definitive	Waters, Soils	GC/ECD	
2125	*Non-halogenated Organics by Gas Chromatography – Total Petroleum Hydrocarbons*	Definitive	Waters, Soils	GC/FID	
1942	*Extraction of Water Samples by Separatory Funnel*	Definitive	Waters/Organic Preparatory	GC/MS GC/FID GC/ECD	
1959	*Extraction of Soil Samples by Microwave*	Definitive	Soils/Organic Preparatory	GC/MS GC/FID GC/ECD	

SOP #	Title, Date, and URL (if available)	Definitive or Screening Data	Matrix/Analytical Group	SOP Option or Equipment Type	‡Modified for Project? Y/N
1964	*Preparation of Samples for Chlorinated Herbicides Analysis by GC*	Definitive	Waters and Soils/Organic Preparatory	GC/ECD	
1955	*Sulfur Cleanup*	Definitive	Waters and Soils/Organic Preparatory	GC/ECD	
1962	*Florisil Cleanup Procedure*	Definitive	Waters and Soils/Organic Preparatory	GC/ECD	
1960	*Sulfuric Acid Cleanup Procedure*	Definitive	Waters and Soils/Organic Preparatory	GC/ECD	
1954	*Soxhlet Extraction*	Definitive	Soils/Organic Preparatory	GC/MS GC/FID GC/ECD	

‡ A brief summary of project-specific SOP modifications must be provided on this worksheet or referenced.

QAPP Worksheet #24: Analytical Instrument Calibration
(UFP-QAPP Manual Section 3.2.2)
(EPA 2106-G-05 Section 2.3.6)

Laboratory: Alpha Analytical, Westborough, MA

Instrument	Calibration Procedure	Calibration Range	Frequency	Acceptance Criteria	Corrective Action (CA)	Title/position responsible for Corrective Action	SOP Ref
VOA (GC/MS)	4-Bromofluoro benzene (BFB) tune	Water: 5-1000ng Solid: 5-1000ng	Prior to each ICAL; At the beginning of analytical sequence; Every 12hrs	Perform in full SCAN mode; See SOP for BFB acceptance criteria;	Perform instrument/injection port maintenance as necessary; Retune instrument	Analyst	2108
	Initial Calibration (ICAL)		Initial instrument setup; After non-routine instrument service; CCV/ICV criteria are not met	Minimum of 5 standards; Low standard must be ≤ RL; %RSD ≤ 20 except for 10% of compounds may be > 20% but ≤ 30% RSD; r ≥ 0.99 (linear regression); r^2 ≥ 0.99 (non-linear regression)	Review integrations and calculations; Perform and document remedial action as required; Repeat calibration		
	Initial Calibration Verification (ICV)		Immediately after each ICAL	%D ≤ 30; exclusions apply – see SOP; Prepared using standard source different than used for initial calibration	Re-analyze ICV if analytical error is suspected; Recalibrate as needed		
	Continuing Calibration Verification (CCV)		At the beginning of every analytical sequence; Every 12 hours	%D ≤ 20 except for 20% of compounds may be > 20 but ≤ 30%D; Area counts of internal standards must be within 50–200% of the mid-level initial calibration standard	Review integrations and calculations; Re-analyze samples as needed		

Laboratory: Alpha Analytical, Westborough, MA

Instrument	Calibration Procedure	Calibration Range	Frequency	Acceptance Criteria	Corrective Action (CA)	Title/position responsible for Corrective Action	SOP Ref
SVOC (GC/MS)	Decafluorotriphenyl-phosphine (DFTPP) tune	Water: 1-200ng Solid: 1-200ng	Prior to each ICAL; At the beginning of analytical sequence; Every 12 hours	Perform in full SCAN mode; See SOP for DFTPP criteria	Perform instrument/injection port maintenance as necessary; Retune instrument	Analyst	2111
	Initial Calibration (ICAL)		Initial instrument setup; After non-routine instrument service; CCV/ICV criteria are not met	Minimum of 5 standards; Low standard must be ≤ RL; %RSD ≤ 20%; r ≥ 0.99 (linear regression) or r^2 ≥ 0.99 (non-linear regression); If linear regression is used, recalculated concentration of the lowest calibration point is within 30% of the true value, All RFs must meet the minimum RFs listed in SOP	Review integrations and calculations; Perform and document remedial action as required; Repeat calibration		
	Initial Calibration Verification (ICV)		Immediately after each ICAL	%D ≤ 30%; Sporadic marginal failure accepted; Prepared using standard source different than used for initial calibration	Re-analyze ICV if analytical error is suspected; Recalibrate as needed		
	Continuing Calibration Verification (CCV)		At the beginning of every analytical sequence; Every 12 hours	%D ≤ 20 except for 20% of compounds may be > 20 but must be reported as estimated if present; All RFs must meet the minimum RFs listed in SOP; Area counts of internal standards must be within 50–200% of the mid-level initial calibration standard; The retention times of the internal standards must be within +0.05 RRT of the previous daily standard.	Review integrations and calculations; Evaluate samples bracketed by failing CCV for obvious matrix interference; Re-analyze samples as needed;		

Laboratory: Alpha Analytical, Westborough, MA

Instrument	Calibration Procedure	Calibration Range	Frequency	Acceptance Criteria	Corrective Action (CA)	Title/position responsible for Corrective Action	SOP Ref
PCB, Pesticides, Herbicides (GC/ECD)	Initial Calibration (ICAL)	Method specific PCBs 0.1-10 ug/mL Pesticides 0.0005-0.2 ug/mL Herbicides 0.05–2.0 ug/mL	Initial instrument setup; After non-routine instrument service; CCV/ICV criteria are not met	Minimum of 5 standards; Low standard must be ≤ RL; %RSD ≤ 20 or r ≥ 0.99 (linear regression), If linear regression is used, recalculated concentration of the lowest calibration point is within 30% of the true value	Review integrations and calculations; Perform and document remedial action as required; Repeat calibration	Analyst	2129 2116 2128
	Initial Calibration Verification (ICV)		Immediately after each ICAL	PCBs and Herbicides %D ≤ 15; Pesticides %D ≤ 20; Prepared using standard source different than used for initial calibration	Re-analyze ICV if analytical error is suspected; Recalibrate as needed		
	Continuing Calibration Verification (CCV)		At the beginning and end of every analytical sequence; Every 12 hours	PCBs and Pesticides %D ≤ 20; Herbicides %D ≤ 15; Area counts of internal standards must be within 50–200% of the mid-level initial calibration standard. The retention times of the internal standards must be within +0.05 RRT of the previous daily standard.	Review integrations and calculations; Evaluate samples bracketed by failing CCV for obvious matrix interference; Re-analyze samples as needed		

Laboratory: Alpha Analytical, Westborough, MA

Instrument	Calibration Procedure	Calibration Range	Frequency	Acceptance Criteria	Corrective Action (CA)	Title/position responsible for Corrective Action	SOP Ref
Petro (GC/FID)	Initial Calibration (ICAL)	Individual Alkanes 3-500 ug/mL Range: 42-7000 ug/mL	Initial instrument setup; After non-routine instrument service; CCV/ICV criteria are not met	Minimum of 5 standards; Low standard must be ≤ RL; %RSD ≤ 20% or r ≥ 0.99 (linear regression)	Review integrations and calculations; Perform and document remedial action as required; Repeat calibration	Analyst	2125
	Initial Calibration Verification (ICV)		Immediately after each ICAL	%D ≤ 305; Prepared using standard source different than used for initial calibration	Re-analyze ICV if analytical error is suspected; Recalibrate as needed		
	Continuing Calibration Verification (CCV)		At the beginning of every analytical sequence; Every 12 hours	%D ≤ 20%	Review integrations and calculations; Evaluate samples bracketed by failing CCV for obvious matrix interference; Re-analyze samples as needed		

QAPP Worksheet #25: Analytical Instrument and Equipment Maintenance, Testing, and Inspection
(UFP-QAPP Manual Section 3.2.3)
(EPA 2106-G-05 Section 2.3.6)

Instrument / Equipment	Maintenance Activity	Testing Activity	Inspection Activity	Frequency	Acceptance Criteria	Corrective Action	Title/position responsible for corrective action	Reference
GC/MS	Inlet Maintenance: Septa, Injection port liner, clip column	Passing Tune/CCAL; overall chromatogram	Instrument performance and sensitivity	Frequency is dependent on degree of contamination and standard recovery	See SOP	See SOP	Analyst or Section Supervisor	See specific analysis SOP
GC/MS	Column	Passing Tune/ICAL/ ICV; overall chromatogram	Instrument performance and sensitivity	Frequency is dependent on degree of contamination and standard recovery	See SOP	See SOP	Analyst or Section Supervisor	See specific analysis SOP
GC/MS	Source cleaning : Filaments, insulators	Tuning	Instrument performance and sensitivity	Frequency is dependent on degree of contamination and standard recovery	See SOP	See SOP	Analyst or Section Supervisor	See specific analysis SOP
GC/MS	Pump	Complete MS pump down.	Air and water check	Frequency is dependent on vacuum within instrument	See SOP	See SOP	Analyst or Section Supervisor	See specific analysis SOP

Instrument / Equipment	Maintenance Activity	Testing Activity	Inspection Activity	Frequency	Acceptance Criteria	Corrective Action	Title/position responsible for corrective action	Reference
GC/ECD/FID	Inlet Maintenance: Septa, Injection port liner, clip column	Passing CCAL; overall chromatogram	Instrument performance and sensitivity	Frequency is dependent on degree of contamination and standard recovery	See SOP	See SOP	Analyst or Section Supervisor	See specific analysis SOP
GC/ECD/FID	Column	Passing CCAL; overall chromatogram	Instrument performance and sensitivity	Frequency is dependent on degree of contamination and standard recovery	See SOP	See SOP	Analyst or Section Supervisor	See specific analysis SOP

QAPP Worksheet #28: Analytical Quality Control and Corrective Action
(UFP-QAPP Manual Section 3.4 and Tables 4, 5, and 6)
(EPA 2106-G-05 Section 2.3.5)

Laboratory: Alpha Analytical, Westborough, MA
Matrix: Soils/Waters
Analytical Group: VOA
Analytical Method/SOP: 8260/SOP#2108

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
Method Blank	One per preparatory batch of up to 20 samples	No analyte at or above the reporting limit.	Identify source and attempt to eliminate. Reanalyze blank and affected samples (if sufficient sample remains). Qualify data as needed. Report data if sample results >5x blank or sample results ND. If contamination is widespread or reoccurring, analyses must be stopped and the source of contamination must be eliminated or reduced before analyses can continue.	Analyst / Laboratory Quality Assurance Officer	

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
LCS/LCSD	One each per preparatory batch of up to 20 samples.	Generally, 70-130% Recovery; 20% RPD – analyte specific	Correct problem; reanalyze LCS/LCSD and all samples in associated batch for failed analytes. If problem persists, contact Project Manager.	Analyst / Laboratory Quality Assurance Officer	
MS/MSD	One each per preparatory batch of up to 20 samples. Per Client's Request	Generally, 70-130% Recovery; 20% RPD – analyte specific	Report if associated with passing LCS/LCSD. Discuss in narrative.	Laboratory Analyst/Section Supervisor	

Matrix: Soils/Waters
Analytical Group: SVOC
Analytical Method/SOP: 8270/SOP#2111

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
Method Blank	One per preparatory batch of up to 20 samples	No analyte at or above the reporting limit.	Identify source and attempt to eliminate. Re-extract and/or reanalyze blank and affected samples (if sufficient sample remains). Qualify data as needed. Report data if sample results >5x blank or sample results ND. If contamination is widespread or reoccurring, analyses must be stopped and the source of contamination must be eliminated or reduced before analyses can continue.	Analyst / Laboratory Quality Assurance Officer	

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
LCS/LCSD	One each per preparatory batch of up to 20 samples	Generally, 40-140% Recovery, 50% RPD – analyte specific	Correct problem, reprep and reanalyze LCS/LCSD and all samples in associated batch for failed analytes. If problem persists, contact Project Manager.	Analyst / Laboratory Quality Assurance Officer	
MS/MSD	One each per preparatory batch of up to 20 samples. Per Client's Request	Generally, 40-140% Recovery, 50% RPD – analyte specific	Report if associated with passing LCS/LCSD. Discuss in narrative.	Laboratory Analyst/Section Supervisor	

Matrix: Soils/Waters
Analytical Group: Pesticides
Analytical Method/SOP: 8081 /SOP#2116

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
Method Blank	One per preparatory batch of up to 20 samples	No analyte at or above the reporting limit.	Identify source and attempt to eliminate. Re-extract and/or reanalyze blank and affected samples (if sufficient sample remains). Qualify data as needed. Report data if sample results >5x blank or sample results ND. If contamination is widespread or reoccurring, analyses must be stopped and the source of contamination must be eliminated or reduced before analyses can continue.	Analyst / Laboratory Quality Assurance Officer	

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
LCS/LCSD	One each per preparatory batch of up to 20 samples	40-140% Recovery. 30% RPD.	Correct problem, reprep and reanalyze LCS/LCSD and all samples in associated batch for failed analytes. If problem persists, contact Project Manager.	Analyst / Laboratory Quality Assurance Officer	
MS/MSD	One each per preparatory batch of up to 20 samples. Per Client's Request	40-140% Recovery, 30% RPD	Report if associated with passing LCS/LCSD. Discuss in narrative.	Laboratory Analyst/Section Supervisor	

Matrix: Soils/Waters
Analytical Group: PCBs
Analytical Method/SOP: 8082 /SOP#2129

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
Method Blank	One per preparatory batch of up to 20 samples	No analyte at or above the reporting limit.	Identify source and attempt to eliminate. Re-extract and/or reanalyze blank and affected samples (if sufficient sample remains). Qualify data as needed. Report data if sample results >5x blank or sample results ND. If contamination is widespread or reoccurring, analyses must be stopped and the source of contamination must be eliminated or reduced before analyses can continue.	Analyst / Laboratory Quality Assurance Officer	

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
LCS/LCSD	One per preparatory batch of up to 20 samples	QC acceptance criteria 40-140% Recovery, Aqueous RPD 30%, Soil RPD 50%	Correct problem, reprep and reanalyze LCS/LCSD and all samples in associated batch for failed analytes. If problem persists, contact Project Manager.	Analyst / Laboratory Quality Assurance Officer	
MS/MSD	One each per preparatory batch of up to 20 samples. Per Client's Request	40-140% Recovery, Aqueous RPD 30%, Soil RPD 50%	Report if associated with passing LCS/LCSD. Discuss in narrative.	Laboratory Analyst/Section Supervisor	

Matrix: Soils/Waters
Analytical Group: Herbicides
Analytical Method/SOP: 8151 /SOP#2128

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
Method Blank	One per preparatory batch of up to 20 samples	No analyte at or above the reporting limit.	Identify source and attempt to eliminate. Re-extract and/or reanalyze blank and affected samples (if sufficient sample remains). Qualify data as needed. Report data if sample results >5x blank or sample results ND. If contamination is widespread or reoccurring, analyses must be stopped and the source of contamination must be eliminated or reduced before analyses can continue.	Analyst / Laboratory Quality Assurance Officer	

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
LCS/LCSD	One each per preparatory batch of up to 20 samples	QC acceptance criteria 40-140% Recovery, 25% RPD	Correct problem, reprep and reanalyze LCS/LCSD and all samples in associated batch for failed analytes. If problem persists, contact Project Manager.	Analyst / Laboratory Quality Assurance Officer	
MS/MSD	One each per preparatory batch of up to 20 samples. Per Client's Request	QC acceptance criteria 40-140% Recovery. 30% RPD	Report if associated with passing LCS/LCSD. Discuss in narrative.	Laboratory Analyst/Section Supervisor	

Matrix: Soils/Waters
Analytical Group: TPH
Analytical Method/SOP: 8015 /SOP#2125

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
Method Blank	One per preparatory batch of up to 20 samples	No analyte at or above the reporting limit.	Identify source and attempt to eliminate. Re-extract and/or reanalyze blank and affected samples (if sufficient sample remains). Qualify data as needed. Report data if sample results >5x blank or sample results ND. If contamination is widespread or reoccurring, analyses must be stopped and the source of contamination must be eliminated or reduced before analyses can continue.	Analyst / Laboratory Quality Assurance Officer	

QC Sample	Number/Frequency	Method/SOP Acceptance Criteria	Corrective Action	Title/position of person responsible for corrective action	Project-Specific MPC
LCS/LCSD	One each per preparatory batch of up to 20 samples	QC acceptance criteria 40-140% Recovery. 40% RPD.	Correct problem, reprep and reanalyze LCS/LCSD and all samples in associated batch for failed analytes. If problem persists, contact Project Manager.	Analyst / Laboratory Quality Assurance Officer	
MS/MSD	One each per preparatory batch of up to 20 samples. Per Client's Request	QC acceptance criteria 60-140% Recovery. 40% RPD.	Report if associated with passing LCS/LCSD. Discuss in narrative.	Laboratory Analyst/Section Supervisor	

QAPP Worksheet #24: Analytical Instrument Calibration
(UFP-QAPP Manual Section 3.2.2)
(EPA 2106-G-05 Section 2.3.6)

Laboratory: Alpha Analytical, Westborough, MA

Instrument	Calibration Procedure	Calibration Range	Frequency	Acceptance Criteria	Corrective Action (CA)	Title/position responsible for Corrective Action	SOP Reference
ICP-MS	Tune verification; External; multipoint	Varies by element	Daily or as required	CC > 0.998; ICV 95-105%; CCV 90-110%; ICB/CCB < ±RL	Clean, inspect, adjust/recalibrate	ICP-MS Analyst, Dept. Manager	2156 rev.3
ICP	Response verification; External; multi-point	Varies by element	Daily or as required	CC > 0.995; ICV 90-110%; CRI 70-130%; CCV 90-110%; ICB/CCB < ±RL	Clean, inspect, adjust/recalibrate	ICP Analyst, Dept. Manager	2144 rev 2
CVAA	External; multi-point	0.2-10 ppb	Per digestion batch	CC > 0.995; ICV 90-110%; CCV 90-110%; ICB/CCB < ±RL	Clean, inspect, adjust/recalibrate	CVAA Analyst, Dept. Manager	2145 rev. 2 2146 rev. 3

QAPP Worksheet #19 & 30: Sample Containers, Preservation, and Hold Times
(UFP-QAPP Manual Section 3.1.2.2)
(EPA 2106-G-05 Section 2.3.2)

Laboratory: Alpha Analytical, Westborough, MA

List any required accreditations/certifications:

Back-up Laboratory:

Sample Delivery Method:

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Data Package Turnaround
Trace Metals by ICP	Soil	EPA 6010C / 2144	Amber 250ml unpreserved	4 ± 2°C	N/A	180 days	
Trace Metals by ICP	Liquid	EPA 6010C / 2144	Plastic 500ml	HNO3 preserved	N/A	180 days	
Trace Metals by ICP	Liquid	EPA 200.7 / 2149	Plastic 500ml	HNO3 preserved	N/A	180 days	
Trace Metals by ICPMS	Liquid	EPA 6020A / 2156	Plastic 500ml	4 ± 2°C 1:1 Nitric acid to a pH of <2	N/A	180 days	
Trace Metals by ICPMS	Liquid	EPA 200.8 / 2159	Plastic 500ml	4 ± 2°C 1:1 Nitric acid to a pH of <2	N/A	180 days	

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Data Package Turnaround
Trace Metals by ICPMS	Soil	EPA 6020A / 2156	Amber 250ml unpreserved	4 ± 2°C	N/A	180 days	
Mercury	Liquid	EPA 7470A / 2145	Plastic 500ml	HNO3 to a pH of <2.	N/A	28 days	
Mercury	Liquid	EPA 245.1 / 2153	Plastic 500ml	HNO3 to a pH of <2.	N/A	28 days	
Mercury	Soil	EPA 7471B / 2146	Amber 250ml unpreserved	4 ± 2°C	N/A	28 days	
Volatile Organic Compounds	Liquid	EPA 8260C / 2108	2, 40-ml VOA vials w/ PTFE-faced silicone septum	4 ± 2°C 1:1 HCL to a pH of <2.	14 days	14 days	
Volatile Organic Compounds	Liquid	EPA 624 / 2022	2, 40-ml VOA vials	4 ± 2°C	N/A	Unpreserved – 7 days 1:1 HCL - 14 days Acrolein – 3days	
Volatile Organic Compounds	Soil	EPA 8260C / 2108	2, 40-ml VOA vials	4 ± 2°C	14 days	14 days	
Purgeable Organic Compounds	Liquid	EPA 524.2 / 2107	2, 40-ml VOA vials, Ascorbic Acid/HCl preserved	1:1 HCL to a pH of <2.	Preserved - 14 days Unpreserved – 24 hours	14 days	
Volatile Petroleum Hydrocarbons	Liquid	MA VPH / 2120	2, 40-ml VOA vials, HCl preserved	1:1 HCL to a pH of <2.	N/A	14 days	

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Data Package Turnaround
Volatile Petroleum Hydrocarbons	Soil	MA VPH / 2120	2, 40-ml VOA vials	4 ± 2°C	N/A	28 days	
Gasoline Range Organics	Liquid	EPA 8015C(M) / 2126	2, 40-ml VOA vials, HCl preserved	1:1 HCL to a pH of <2. 4 ± 2°C	14 days	14 days	
Gasoline Range Organics	Soil	EPA 8015C(M) / 2126	1, 40-mL VOA vial, MeOH preserved	Methanol 4 ± 2°C	14 days	14 days	
Semivolatile Organics	Liquid	EPA 8270D / 2111	2, 1-liter amber glass jars	4 ± 2°C	7 days	40 days	
Semivolatile Organics	Liquid	EPA 625 / 2110	2, 1-liter amber glass jars	4 ± 2°C	7 days	40 days	
Semivolatile Organics by SIM	Liquid	EPA 8270D-SIM / 2109	2, 1-liter amber glass jars	4 ± 2°C	7 days	40 days	
Semivolatile Organics	Soil	EPA 8270D / 2111	1, 250mL amber glass jar	4 ± 2°C	14 days	40 days	
Semivolatile Organics by SIM	Soil	EPA 8270D-SIM / 2109	1, 250mL amber glass jar	4 ± 2°C	14 days	40 days	
EBD/DBCP	Liquid	EPA 504.1 / 2113	2, 40mL vials	3-5mg of sodium thiosulfate crystals 4 ± 2°C	14 days	24 hours	
Pesticides	Liquid	EPA 8081B / 2116	2, 1-liter amber glass jars	4 ± 2°C	7 days	40 days	

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Data Package Turnaround
Pesticides	Soil	EPA 8081B / 2116	1, 250mL amber glass jar	4 ± 2°C	14 days	40 days	
PCB	Liquid	EPA 8082A / 2129	2, 1-liter amber glass jars	4 ± 2°C	7 days	40 days	
PCB	Soil	EPA 8082A / 2129	1, 250mL amber glass jar	4 ± 2°C	14 days	40 days	
Pesticide & PCB	Liquid	EPA 608 / 2122	2, 1-liter amber glass jars	4 ± 2°C	7 days	40 days	
Herbicides	Liquid	EPA 8151A / 2128	2, 1-liter amber glass jars	4 ± 2°C	7 days	40 days	
Herbicides	Soil	EPA 8151A / 2128	1, 250mL amber glass jar	4 ± 2°C	14 days	40 days	
PCB – Oil	Oil	EPA 600/4-81-045 / 2123	Glass jar	4 ± 2°C	14 days	40 days	
Extractable Petroleum Hydrocarbons	Liquid	MA EPH / 2119	2, 1-liter amber glass jars	1:1 HCL to a pH of <2. 4 ± 2°C	14 days	40 days	
Extractable Petroleum Hydrocarbons	Soil	MA EPH / 2119	1, 250mL amber glass jar	4 ± 2°C	14 days	40 days	
NJ Extractable Petroleum Hydrocarbons	Liquid	NJ EPH / 2131	2, 1-liter amber glass jars	1:1 HCL to a pH of <2. 4 ± 2°C	14 days	40 days	
NJ Extractable Petroleum Hydrocarbons	Soil	NJ EPH / 2131	1, 250mL amber glass jar	4 ± 2°C	14 days	40 days	

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Data Package Turnaround
TPH Diesel Range Organics	Liquid	EPA 8015C(M) / 2125	2, 1-liter amber glass jars	4 ± 2°C	7 days	40 days	
TPH Diesel Range Organics	Soil	EPA 8015C(M) / 2125	1, 250mL amber glass jar	4 ± 2°C	14 days	40 days	
CT – Extractable Total Petroleum Hydrocarbons	Liquid	CT-ETPH / 2127	2, 1-liter amber glass jars	4 ± 2°C	7 days	40 days	
CT – Extractable Total Petroleum Hydrocarbons	Soil	CT-ETPH / 2127	1, 250mL amber glass jar	4 ± 2°C	14 days	40 days	
Explosives	Liquid	EPA 8330A / 2250	2, 1-liter amber glass jars	4 ± 2°C	7 days	40 days	
Explosives	Soil	EPA 8330A / 2250	1, 250mL amber glass jar	4 ± 2°C	14 days	40 days	
Perchlorate	Liquid	EPA 332.0 & 6860 / 2251	1, 120mL plastic or amber glass	4 ± 2°C	28 days	28 days	
Perchlorate	Soil	EPA 6860 / 2251	1, 250mL amber glass jar	4 ± 2°C	28 days	28 days	
pH	Liquid	EPA 9040B & SM 4500H-B/ 2202	1, 250mL plastic or amber glass	4 ± 2°C	N/A	ASAP, within 24 hours	
pH	Soil	EPA 9045D & 9040C / 2202	1, 4oz glass jar	4 ± 2°C	N/A	ASAP, within 24 hours	

Analyte/ Analyte Group	**Matrix**	**Method/ SOP**	**Container(s) (number, size & type per sample)**	**Preservation**	**Preparation Holding Time**	**Analytical Holding Time**	**Data Package Turnaround**
Hexavalent Chromium	Liquid	SM 3500Cr-D / 2204	1, 500mL Plastic	4 ± 2°C	N/A	24 hours	
Hexavalent Chromium	Soil	SM 3500Cr-D & EPA 7196A / 2204	1, 500mL Plastic	4 ± 2°C	30 days	7 days	
Biochemical Oxygen Demand	Liquid	SM 5210B / 2205	1, 1-liter Plastic	4 ± 2°C	N/A	48 hours	
Chemical Oxygen Demand	Liquid	SM 5220D, EPA 410.4 / 2208	1, 250mL Plastic	1:1 H_2SO_4 to a pH of <2. 4 ± 2°C	N/A	28 days	
Nitrogen, Ammonia	Liquid	SM4500NH3 -BH, EPA 350.1 / 2206	1, plastic 500ml	H2SO4 preserved 4 ± 2°C	N/A	28 days	
Nitrogen, Ammonia	Soil	SM4500NH3 -BH, / 2206	1, 250mL amber glass jar	4 ± 2°C	N/A	28 days	
Nitrogen, Total Kjeldahl	Liquid	SM 4500Norg-C, EPA 351.1 / 2207	1, plastic 500ml	H2SO4 preserved 4 ± 2°C	N/A	28 days	
Nitrogen, Total Kjeldahl	Soil	SM 4500Norg-C, / 2207	1, 250mL amber glass jar	4 ± 2°C	N/A	28 days	
Oil & Grease	Liquid	EPA 1664A / 2209	2, 1-liter amber glass jars	1:1 HCL to a pH of <2. 4 ± 2°C	N/A	28 days	

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Data Package Turnaround
Total Petroleum Hydrocarbons	Liquid	EPA 1664A / 2209	2, 1-liter amber glass jars	1:1 HCL to a pH of <2. $4 \pm 2°C$	N/A	28 days	
Total Cyanide	Liquid	SM 4500CN-CE / 2210	1, Plastic 250ml NaOH preserved	50% sodium hydroxide pH > 12 $4 \pm 2°C$	14 days	14 days	
Total Cyanide	Soil	EPA 9010C, 9012B, 9014(M) / 2210	1, 250mL amber glass jar	$4 \pm 2°C$	14 days	14 days	
Phenol, Total	Liquid	EPA 510AC, EPA 420.1 / 2211	1, 1-liter amber glass jars	H_2SO_4 preserved, pH<4 $4 \pm 2°C$	N/A	28 days	
Phenol, Total	Soil	EPA 9065 / 2211	1, 250mL amber glass jar	$4 \pm 2°C$	28 days	24 hours	
Sulfate	Liquid	EPA 426C, 375.4, SM 4500SO4-E / 2212	1, Plastic 500ml	$4 \pm 2°C$	N/A	28 days	
Sulfate	Soil	EPA 9038 / 2212	1, 250mL amber glass jar	$4 \pm 2°C$	N/A	28 days	
Alkalinity	Liquid	SM 2320B / 2213	1, Plastic 500ml	$4 \pm 2°C$	N/A	14 days	
Acidity	Liquid	SM 2310B / 2232	1, Plastic 250ml	$4 \pm 2°C$	N/A	14 days	

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Data Package Turnaround
Inorganic Anions by IC	Liquid	EPA 300.0 / 2214	1, Plastic 500ml	4 ± 2°C	N/A	NO3 – 48 hours Br, Cl, F, SO4 - 28 days	
Total Organic Carbon	Liquid	SM 5310C / 2215	2, Vial H2SO4 preserved	1:1 H_2SO_4 pH <2, 4 ± 2°C	N/A	28 days	
Chloride	Liquid	SM 4500Cl-E, EPA 9251 / 2216	1, Plastic 250ml	4 ± 2°C	N/A	28 days	
Nitrate, Nitrite & Nitrate/Nitrite	Liquid	EPA 353.2, 354.1, SM4500NO3 -F, 4500NO2-B / 2217	1, Plastic 250ml	Individual: unpreserved Combined: 1:1 H_2SO_4 4 ± 2°C	N/A	Individual: 48 hours Combined: 28 days	
Total Solids Dried Total Volatile Solids	Liquid	SM 2540B / 2218	1, Plastic 500ml	4 ± 2°C	N/A	7 days	
Total Dissolved Solids Total Volatile Dissolved Solids	Liquid	SM 2540C / 2219	1, Plastic 500ml	4 ± 2°C	N/A	7 days	
Total Suspended Solids Total Volatile Suspended Solids	Liquid	SM 2540D / 2220	1, Plastic 1-Liter	4 ± 2°C	N/A	7 days	

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Data Package Turnaround
Percent Solids	Soil	SM 2540G / 2229	1, Plastic 2oz	4 ± 2°C	N/A	7 days	
Fixed & Volatile Solids	Soil	SM 2540G / 2241	1, 250mL amber glass jar	4 ± 2°C	N/A	7 days	
Solids, Settable	Liquid	SM 2540F / 2240	1, Plastic 1-Liter	4 ± 2°C	N/A	48 hours	
Total Sulfide	Liquid	EPA 376.2, SM 4500S2-AD / 2221	2, Plastic 250ml	2N zinc Acetate and 6N NaOH	N/A	7 days	
Total Sulfide	Soil	EPA 9030B / 2221	1, 250mL amber glass jar	2N zinc Acetate and 6N NaOH	N/A	7 days	
MBAS	Liquid	SM 5540C / 2222	1, Plastic 1-Liter	4 ± 2°C	N/A	48 hours	
Fluoride	Liquid	SM 4500F-BC / 2223	1, Plastic 500ml	4 ± 2°C	28 days	48 hours	
Turbidity	Liquid	SM 2130B, EPA 180.1 / 2224	1, Plastic 500ml	4 ± 2°C	N/A	48 hours	
Orthophosphate	Liquid	SM 4500P-E / 2225	1, Plastic 250ml	4 ± 2°C	N/A	48 hours	
Phosphorous	Liquid	SM 4500P-E, 4500P-B / 2226	1, Plastic 500ml	H_2SO_4, pH < 2 4 ± 2°C	N/A	28 days	
Flashpoint	Soil	EPA 1010 / 2227	1, 250mL amber glass jar	4 ± 2°C	N/A	N/A	

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Data Package Turnaround
Ignitability	Soil	EPA 1030 / 2238	1, 250mL amber glass jar	N/A	N/A	14 days	
Reactive Sulfide & Cyanide	Liquid	SW-846 Ch. 7 / 2228	1, 500mL amber glass jar	4 ± 2°C	N/A	7 days	
Reactive Sulfide & Cyanide	Soil	SW-846 Ch. 7 / 2228	1, 250mL amber glass jar	4 ± 2°C	N/A	14 days	
Specific Conductance	Liquid	SM 2510B, EPA 120.1, 9050 / 2230	1, Plastic 250ml	4 ± 2°C	N/A	28 days	
Color	Liquid	STM 2120B / 2231	1, 500mL amber glass jar	4 ± 2°C	N/A	24 Hours	
Formaldehyde	Liquid	EPA 8315A / 2233	1, 1-liter amber glass jars	4 ± 2°C	3 days	3 days	
Sulfite	Liquid	SM 4500SO32B, EPA 377.1 / 2234	1, Plastic 250ml	4 ± 2°C	N/A	24 hours	
Ferrous Iron	Liquid	SM 3500-Fe D / 2235	1, Plastic 250ml	4 ± 2°C	N/A	24 hours	
Chlorine (Residual)	Liquid	SM 4500-Cl –D, EPA 330.1 / 2236	1, Plastic 500ml	N/A	N/A	24 hours	
Oxidation – Reduction Potential	Liquid	ASTMD1498 (M) / 2237	1, Plastic 500ml	N/A	N/A	24 hours	
Oxidation – Reduction Potential	Soil	ASTM D1498 (M) / 2237	1, 250mL amber glass jar	N/A	N/A	28 days	

Analyte/ Analyte Group	Matrix	Method/ SOP	Container(s) (number, size & type per sample)	Preservation	Preparation Holding Time	Analytical Holding Time	Data Package Turnaround
Physiologically Available Cyanide	Liquid	EPA 9014(M) / 2239	1, Plastic 250ml NaOH preserved	50% sodium hydroxide pH > 12 4 ± 2°C	14 days	14 days	
Physiologically Available Cyanide	Soil	EPA 9014(M) / 2239	1, 250mL amber glass jar	4 ± 2°C	14 days	14 days	
Tannin & Lignin	Liquid	SM 5550B / 2242	1, Plastic 500ml	4 ± 2°C	N/A	N/A	
Nitrite (Manual)	Liquid	SM 4500NO2-B / 2243		4 ± 2°C	N/A	48 hours	
Paint Filter	Soil	EPA 9050B / 2244	1, 250mL amber glass jar	4 ± 2°C	N/A	N/A	
Odor	Liquid	SM 2150B / 2245	1, 1-liter amber glass jars	4 ± 2°C	N/A	24 hours	
Dissolved Oxygen	Liquid	SM 4500O-C, EPA 360.2 / 2249	1, 300mL BOD bottle	Manganeous Sulfate, Alkali-Iodide-Azide, store in dark at temperature of water source	N/A	8 hours	
Free Cyanide	Soil	EPA 9016	1, 250mL amber glass jar	4 ± 2°C, in the dark	14 days	24 hours	

QAPP Worksheet #23: Analytical SOP's
(UFP-QAPP Manual Section 3.2.1)
(EPA 2106-G-05 Section 2.3.4)

Laboratory: Alpha Analytical, Westborough, MA

SOP #	Title, Date, and URL (if available)	Definitive or Screening Data	Matrix/Analytical Group	SOP Option or Equipment Type	‡Modified for Project? Y/N
2144 rev.2	*Inductively coupled plasma-atomic emission spectrometry (ICP-AES)*, 2/2007, rev. 3 6010C	Definitive	Aqueous, Solids, Sludges, and Groundwater	Argon ICP	N
2156 rev.3	*Inductively coupled mass spectrometry*, 2/2007,rev.1 6020A	Definitive	Aqueous, Solids, Sludges, and Groundwater	ICP-MS	N
2146 rev.3	*Mercury in Solid and Semi Solid Wastes, (Semi-Automated Cold-Vapor)* 2/2007, rev. 2 7471B	Definitive	Solids, Sludges and Wastes	CVAA	N
2145 rev.2	*Mercury In Liquid Waste (Semi-Automated Cold-Vapor Technique) 09/1994, Rev. 1 7470a*	Definitive	Mobility-procedure extracts, aqueous wastes, and ground waters	CVAA	N
2136 rev.3	*Acid Digestion of Sediments, Sludges, and Soils Using Block Digestion,* 12/1996, rev 2, 3050B	Definitive	sediments, sludges, and soil samples	Hot Block digestion	N

SOP #	Title, Date, and URL (if available)	Definitive or Screening Data	Matrix/Analytical Group	SOP Option or Equipment Type	‡Modified for Project? Y/N
2134 rev. 2	*Acid Digestion of Waters for Total Recoverable or* Dissolved Metals for Analysis by ICP Spectroscopy, 7/1992, rev 1 3005A	Definitive	Surface and Groundwater Samples	Hot Block digestion	N
2132 rev.2	*Microwave Assisted Acid Digestion of Aqueous Samples and Extracts*, 12/1997, 3015A	Definitive	Aqueous, and Extraction Leachates	Microwave Digestion	N

‡ A brief summary of project-specific SOP modifications must be provided on this worksheet or referenced.

QAPP Worksheet #25: Analytical Instrument and Equipment Maintenance, Testing, and Inspection
(UFP-QAPP Manual Section 3.2.3)
(EPA 2106-G-05 Section 2.3.6)

Laboratory: Alpha Analytical, Westborough, MA

Instrument / Equipment	Maintenance Activity	Testing Activity	Inspection Activity	Frequency	Acceptance Criteria	Corrective Action	Title/position responsible for corrective action	Reference
ICP-MS	Introduction system cleaning. Torch and Cones cleaning. Rough pump oil change	Nebulizer backpressure monitoring. Vacuum reading.	Software monitored. Oil reservoir.	Continuous	<2.4 PSI Neb. <2.1X104 vacuum	Clean and restore Change oil, evacuate ballast	ICP-MS Analyst	1558 QM 2156 rev.3 ICP
ICP	Introduction system cleaning. Torch Clean Flow adjustment. Cell conditioning	Nebulization monitoring	Visual	Daily	Flow consistent and unobstructed	Dismantle, clean	ICP Analyst	1558 QM 2144 rev. 2
CVAA	Sensitivity Test	Adjust and rerun	Flow rate acceptance	Adjust and rerun	Flow rate acceptance	Adjust, line replacement	Analyst	1558 QM 2145 rev.2 2146 rev.3

Instrument / Equipment	Maintenance Activity	Testing Activity	Inspection Activity	Frequency	Acceptance Criteria	Corrective Action	Title/position responsible for corrective action	Reference
CVAA	Sample delivery tubing	Inspect for wear	Visual	Daily inspection Weekly replacement	Uptake acceptance	Replacement	Analyst	1558 QM 2145 rev.2 2146 rev.3
CVAA		Lamp output		Semi-annual	Low standard sensitivity	Replacement of lamp	Analyst	1558 QM 2145 rev.2 2146 rev.3
CVAA	Autosampler control arms	Freely moving, sample position acquired		Daily	Working condition	Lubricate with silicon	Analyst	1558 QM 2145 rev.2 2146 rev.3

QAPP Worksheet #26 & 27: Sample Handling, Custody, and Disposal
(UFP-QAPP Manual Section 3.3)
(EPA 2106-G-05 Section 2.3.3)

Sampling Organization: Project Specific

Laboratory: Alpha Analytical, Westborough, MA

Method of sample delivery (shipper/carrier): UPS, Fed-EX or laboratory courier

Number of days from reporting until sample disposal: Project Specific

Activity	Organization and title or position of person responsible for the activity	SOP reference
Sample labeling	Client-assigned field staff	N/A
Chain-of-custody form completion	Client-assigned field staff	N/A
Packaging	Client-assigned field staff	N/A
Shipping coordination	Client-assigned field staff	N/A
Sample receipt, inspection, & log-in	Laboratory Log-In/Custody Staff	1559
Sample custody and storage	Laboratory Log-In/Custody Staff	1559, 1560
Sample disposal	Laboratory Log-In/Custody Staff	1559, 1560

APPENDIX H –

RESPONSIBILITIES OF SITE OWNER AND REMEDIAL PARTY

Responsibilities

The responsibilities for implementing the Site Management Plan ("SMP") for the Former American Linen Supply Co. facility site (the "site"), number **C915241,** and are divided between the Site Owner and a Remedial Party, as defined below. The Site Owner is currently listed as:

Mill Race Commons, LLC (the "Site Owner").
726 Exchange Street, Suite 825
Buffalo, NY, 14210
716-856-8400

Solely for the purposes of this document and based upon the facts related to a particular site and the remedial program being carried out, the term Remedial Party ("RP") refers to any of the following: certificate of completion holder, volunteer, applicant, responsible party, and, in the event the New York State Department of Environmental Conservation ("NYSDEC") is carrying out remediation or site management, the NYSDEC and/or an agent acting on its behalf. The RP is:

Aramark Union & Career Apparel, LLC
8130 S. Meridian Street, Suite 1a
Indianapolis, Indiana 46217
317-371-6132

Nothing in Appendix H shall supersede the provisions of an Environmental Easement, Consent Order, Consent Decree, agreement, or other legally binding document that affects rights and obligations relating to the Site.

Responsibilities are based on the following referenced documents and agreements:

- Environmental Easement dated 22 September 2014 and recorded with the Erie County Clerk on 1 October 2014 (attached as Appendix A of the SMP)
- "Site Access Agreement" between AmeriPride Services, Inc. and Mill Race Commons, LLC dated 13 January 2014.
- "Real Property Purchase Agreement" between AmeriPride Services Inc and Mill Race Commons, LLC dated 3 April 2013.

Site Owner's Responsibilities:

1) The Site Owner shall follow the provisions of the SMP as they relate to future construction and excavation at the site.

2) In accordance with a periodic time frame determined by the NYSDEC, the Site Owner shall periodically certify, in writing, that all Institutional and Engineering Controls set forth in a(n) Environmental Easement remain in place and continue to be complied with. The Site Owner shall provide a written certification to include the certification in the site's Periodic Review Report (PRR) certification to the NYSDEC.

3) In the event the Site is delisted, the Site Owner remains bound by the Environmental Easement and shall submit, upon request by the NYSDEC, a written certification that the Environmental Easement is still in place and has been complied with.

4) The Site Owner shall grant access to the Site to the RP and the NYSDEC and its agents for the purposes of performing activities required under the SMP and assuring compliance with the SMP.

5) The Site Owner is responsible for assuring the security of the remedial components located on its property to the best of its ability. In the event that damage to the remedial components or vandalism is evident, the Site Owner shall notify the site's RP and NYSDEC in accordance with the timeframes indicated in Section [2.4.2]-Notifications.

6) In the event some action or inaction by the Site Owner adversely impacts the Site, the Site Owner must notify the RP and the NYSDEC in accordance with the time frame indicated in [Section 2.4.2]- Notifications and (ii) coordinate the performance of necessary corrective actions with the RP.

7) If the NYSDEC determines that an update of the SMP is necessary, the Site Owner shall update the SMP and obtain final approval from the NYSDEC. Within 5 business days after NYSDEC approval, the Site Owner shall submit a copy of the approved SMP to the Remedial Party.

8) The Site Onwer shall notify the NYSDEC of any damage to or modification of the systems as required under Section [2.4.2]- Notifications] of the SMP.

9) Prior to a change in use that impacts the remedial system or requirements and/or responsibilities for implementing the SMP, the Site Owner shall submit to the NYSDEC for approval an amended SMP.

10) Any change in use, change in ownership, change in site classification (*e.g.*, delisting), reduction or expansion of remediation, and other significant changes related to the site may result in a change in responsibilities and, therefore, necessitate an update to the SMP and/or updated legal documents. The Site Owner shall contact the Department to discuss the need to update such documents.

11) The Site Owner must notify the RP and the NYSDEC of any change in ownership of the site property (identifying the tax map numbers in any correspondence) and provide contact information for the new owner of the Site. 6 NYCRR Part contains notification requirements applicable to any construction or activity changes and changes in ownership. Among the notification requirements is the following: Sixty days prior written notification must be made to the NYSDEC. Notification is to be submitted to the NYSDEC Division of Environmental Remediation's Site Control Section. Notification requirements for a change in use are detailed in Section 2.4 of the SMP. A 60-Day Advance Notification Form and Instructions are found at http://www.dec.ny.gov/chemical/76250.html.

12) In accordance with the tenant notification law, within 15 days of receipt, the Site Owner must supply a copy of any vapor intrusion data, that is produced with respect to structures and that exceeds NYSDOH or OSHA guidelines on the Site, whether produced by the NYSDEC, RP, or Site Owner, to the tenants on the property. The owner must otherwise comply with the

tenant and occupant notification provisions of Environmental Conservation Law Article 27, Title 24.

Remedial Party Responsibilities

1) The RP must follow the SMP provisions regarding any construction and/or excavation it undertakes at the site.

2) The RP shall report to the NYSDEC all activities required for the media monitoring program, monitoring, and reporting. Such reporting includes, but is not limited to, electronic data deliverables.

3) Before accessing the Site to undertake a specific activity, the RP shall provide the Site Owner advance notification that shall include an explanation of the work expected to be completed. The RP shall provide to (i) the owner, upon the owner's request, (ii) the NYSDEC, and (iii) other entities, if required by the SMP, a copy of any data generated during the site visit and/or any final report produced.

4) The RP shall notify the NYSDEC and the owner of any changes in RP ownership and/or control and of any changes in the party/entity responsible for the media monitoring program The RP shall provide contact information for the new party/entity. Such activity constitutes a Change of Use pursuant to 375-1.11(d) and requires 60-days prior notice to the NYSDEC. A 60-Day Advance Notification Form and Instructions are found at http://www.dec.ny.gov/chemical/76250.htm.

Change in RP ownership and/or control and/or site ownership does not affect the RP's obligations with respect to the site unless a legally binding document executed by the NYSDEC releases the RP of its obligations.

Future Site Owners and RPs and their successors and assigns are required to carry out the activities set forth above.

APPENDIX I -
CHANGE IN USE COMPLETION REPORT MAY 2021

Change in Use Completion Report

Prepared For:

Mill Race Commons LLC
726 Exchange Street
Buffalo, New York 14210

Project Location:

Former American Linen Supply Company Facility
822 Seneca Street
Buffalo, New York 14210

Prepared By:

AFI Environmental
PO Box 4049
Niagara Falls, New York 14304
(716) 283-7645
www.afienvironmental.com

May 2021

Table of Contents

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<u>**Tables**</u>

<u>**Appendices**</u>

1.0 Introduction and Background

1.1 Site Location and Description

The Site is located in the City of Buffalo, Erie County, New York and is identified as the parcel with section 122.27, Block I and Lol 4 on the City of Buffalo Tax Maps. The Site is an approximately 2.91 -acre area bounded by Seymour Street beyond which are residential properties to the north, Seneca Street beyond which is a vacant former industrial property to the south, Lord Street beyond which are industrial properties and the flying Bison Brewery to the east, vacant and commercial properties to the southwest and residential properties to the northwest.

1.2 Site History

Over the history of the Site, it has been used for various commercial and industrial uses including use as a laundering facility. A remedial Investigation at the site was conducted, which identified UST's, soil contamination and groundwater contamination from historic site uses. Remedial activities on-site were completed from 2012 to 2014. Activities included the removal of basement cisterns, removal of the impacted floor slab and soil beneath the historic building, removal of the on-site stormwater vault, removal of the closed in place waste oil UST, removal of fill and soils in the former dry-cleaning area that had been impacted by CVOCs, removal of the fill from the former dry-cleaning area and site grading, backfill and placement of a cover system. A Site Management Plan and Environmental Easement were developed to manage the remaining contamination on-site. The site was acquired by Mill Race Commons, LLC in 2013.

2.0 Change in Use Construction Activities

AFI Environmental on behalf of Mill Race Commons, LLC, submitted a change in Use Work Plan and Supplemental Work Plan to the Department, which were approved on May 04, 2020 and August 27, 2020, respectively. A photo log of all change in use construction that was completed can be seen in **Appendix A**. A Site Location Map can be seen in **Figure 1**. An updated Site Map can be seen in **Figure 2**. Change in Use construction activities began in May of 2020 and were completed in April 2021.

2.1 Parking Lot Repairs and Upgrades

The paved area of the Site was upgraded and repaired by Northeast Diversification paving. The area was leveled prior to an approximately 2" thick topcoat of Type 7 asphalt being placed over the existing asphalt layers. The weigh tickets of the imported asphalt and binder material can be seen in **Appendix B**. A total of 510.18 tons of asphalt was placed at the site. A photo log of parking lot repairs and upgrades can be seen in **Appendix A**.

2.2 Storm Drainage Upgrades

The Change in Use for the Site for use as an intermitted parking lot included the replacement of four (4) catch basins and the associated piping. The connection from the southernmost catch basin to the combined sewer system running along Seneca street was not replaced and tied back into the upgraded drainage network. A photo log of the upgrades to the stormwater catchment system can be seen in **Appendix A**. Drainage basins that were removed a replaced were cleaned of soils and cleaned prior to their transportation and disposal as construction and demolition debris.

2.3 Asphalt and Concrete Removal

Selected regions of the asphalt and concrete cover system were removed from the site. The area of hard cover removal was directly to the east of the 798 Seneca Street Lot. This region of hard cap removal was located directly above the two (2) abandoned underground storage tanks (USTs). The asphalt and concrete as well as soils beneath the cap system were excavated and disposed of to a depth of 1' to allow for placement of a soft cover cap in this area that is consistent with existing grade. The concrete asphalt and soil resulting from this excavation work was disposed of as a non-=hazardous waste due to de-listing by the NYSDEC at the Chaffee Landfill.

2.4 Cover Replacement

The selected areas of the cover system modification were replaced with a layer of clean topsoil imported from CJ Krantz organics and placed on a woven geotextile demarcation layer. The minimum thickness of the soil cover placed in this area was 1' in order to meet the standard for a cover system to meet Commercial Use Standards as consistent with the site closure as outlined in the Certificate of Completion for the Site. Cover Replacement activities can be seen in the photo log attached in **Appendix A**. The new cover system for the Site can be seen in **Figure 2**. After the placement of the minimum 1' of clean soil, the area was hydroseeded in order to stabilize the area.

2.5 Well Modifications

As part of the Site Management Plan for the Site a groundwater monitoring well network is present for the Site. As indicated and approved by the Department in the two Change in Use Work Plans prepared by AFI Environmental dated 05/05/2020 and 08/27/2020 all monitoring wells were noted during change in use construction activities and remain for monitoring requirements as outlined in the Site Management Plan.

During the cap modification of the area directly to the east of the 798 Seneca street lot, the top of Casing (TOC) of monitoring well 102R (MW 102R) was modified to match the installed grade of the clean fill cap. The top of this well was reduced 40" by cutting the PVC casing that extended above grade. A road box was placed and secured in concrete to protect the well.

2.6 Imported Fill

In order to complete the change in use approved by the Department, clean fill was imported to the site for backfill as well as site cover modification and repairs.

A total of four catch basins and corresponding pipes were replaced to enhance drainage of the existing paved areas that are to be utilized as an intermittent parking lot as approved by the Department. Replacement of the four catch basins and associated piping required an appropriate base for placement and backfill utilizing clean material. Due to the historic Site uses and contamination left in place as described in the Final Engineering Report for the Former American Linen Supply Company Facility (C915241) are RCRA regulated and is not suitable for reuse. The detailed process of handling and managing the soils from construction activities are outlined in **Section 2.6 Exported Fill.** In order to properly place the new catch basins and drain lines, AFI Environmental submitted a request for the import of number one stone and 2” Crusher Run Stone from the New Enterprise Stone and Lime Quarry located on Wherle Drive in Williamsville NY. The request for the import of this material was approved by the department on June 8, 2020 and can be seen in **Appendix C**.

As outlined by the preliminary site plans and cap modifications plans that were submitted to the Department certified clean topsoil was required for Change in Use construction. The soil selected for import was the premium topsoil mix from CJ Krantz. AFI collected samples of this soil prior to import to the site at a sampling frequency outlined by Table 5.4(e)10 in DER-10. Two separate requests to import the topsoil were approved by the Department and can be seen in **Appendix C**.

Repairs and upgrades to the existing asphalt area on the western portion of the property required the import of type 7 asphalt.

A detailed volume of imported material for change in use construction activities can be seen in **Table 1**. Requests for the import of fill, approval documentation from the Department and material delivery tickets can be seen in **Appendix C**.

2.7 Exported Fill

Repairs and upgrade to the site completed under the CIU WP and Amendment to the CIU WP required excavation of soils and fill material containing contamination that was left in place beneath the demarcation layer. Due to the previous uses of the site, excavated soils require management as a hazardous waste. An exception to managing excavated soils as hazardous waste was approved via the issuance of a Contained-in determination from the NYSDEC Division of Materials Management. The contained-in determinations and waste characterization analytics for excavated soils have been attached in **Appendix D**. All soil excavated during the CIU construction activities were delisted via the contained in determination process. A non-hazardous waste profile was created at Chaffee Landfill, operated by Waste Management. Scale Tickets from waste management can be seen in **Appendix D**, please note that non-hazardous manifests were not signed and/or collected by the disposal facility due to the Covid-19 pandemic. A total of 581.68 tons of soil was de-listed from being hazardous wase and disposed of.

3.0 Remaining Soil Conditions

During Cap modification activities, soil samples were collected from the base of the excavation to document the remaining soil characteristics beneath the demarcation layer in the area of asphalt and concrete directly to the east of the 798 Seneca Street lot. A data map showing the remaining soil characteristics of selected contaminant of concern based on the Site Management Plan and Final Engineering Report can be seen in **Figure 3**. Laboratory reports of the samples collected to document remaining contamination beneath the demarcation layer in the area of cap modification directly to the east of the 798 Seneca Street property can be seen in **Appendix E**.

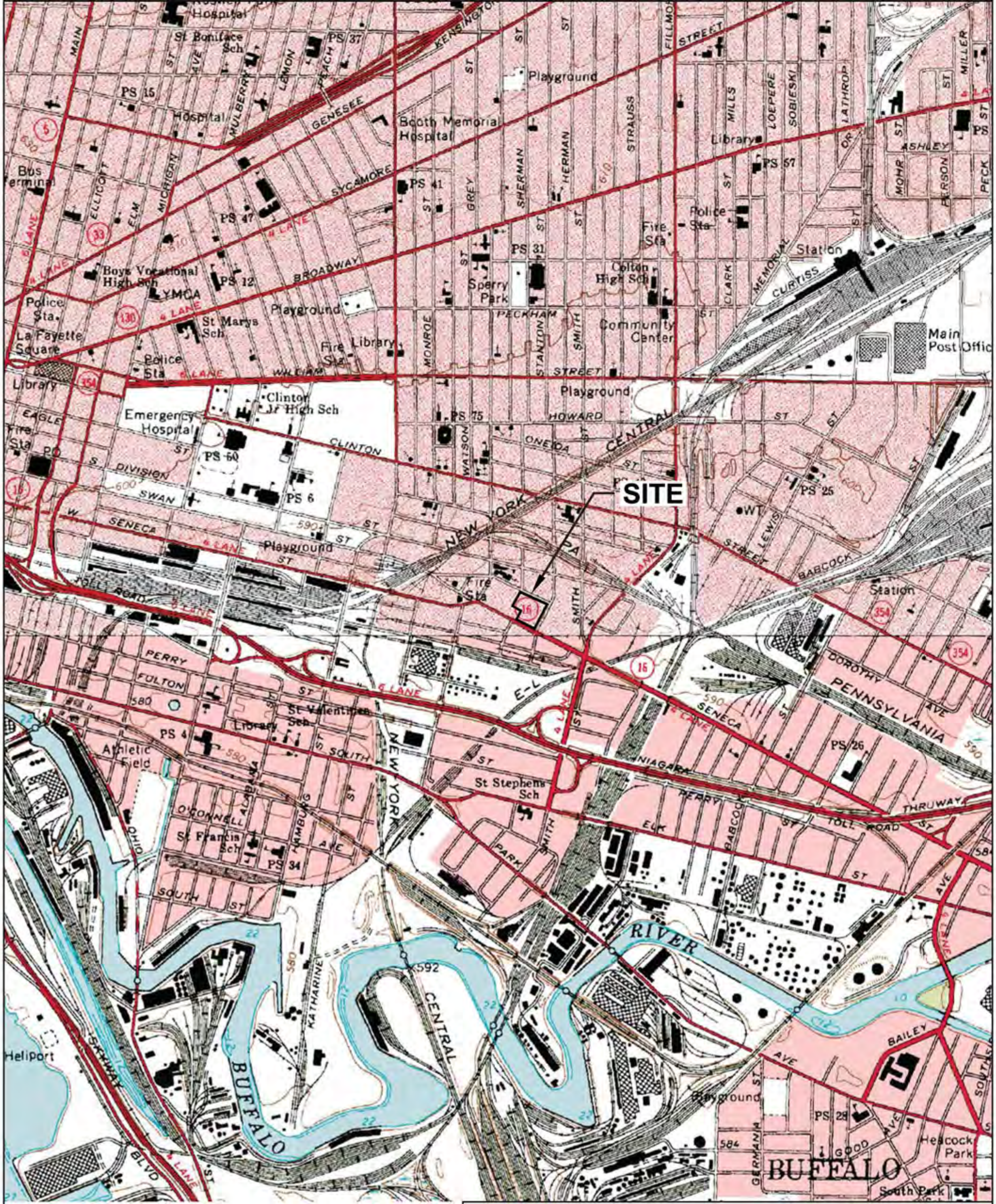
4.0 Community Air Monitoring Plan

During all Change in Use construction activities particulate and VOC concentrations in air were monitored following the guidelines set forth in the New York State Department of Health Generic Community Air Monitoring Plan. A DustTrak II monitor was utilized for air monitoring purposes and this data can be seen in **Appendix F**.

5.0 Change in Use Completion

Change in use activities for the Former American Linen Supply Company Facility, NYSDEC Site C915241 began in May 2020 as approved by the Department with the required 60-day notice for change in use. Construction activities took place through the remainder of 2020 and beginning of 2021, coming to a completion of April 2021.

Figures



SCALE: 1:24000
FEBRUARY 2014

SITE COORDINATES: 78°50'48.28"W, 42°52'34.00"

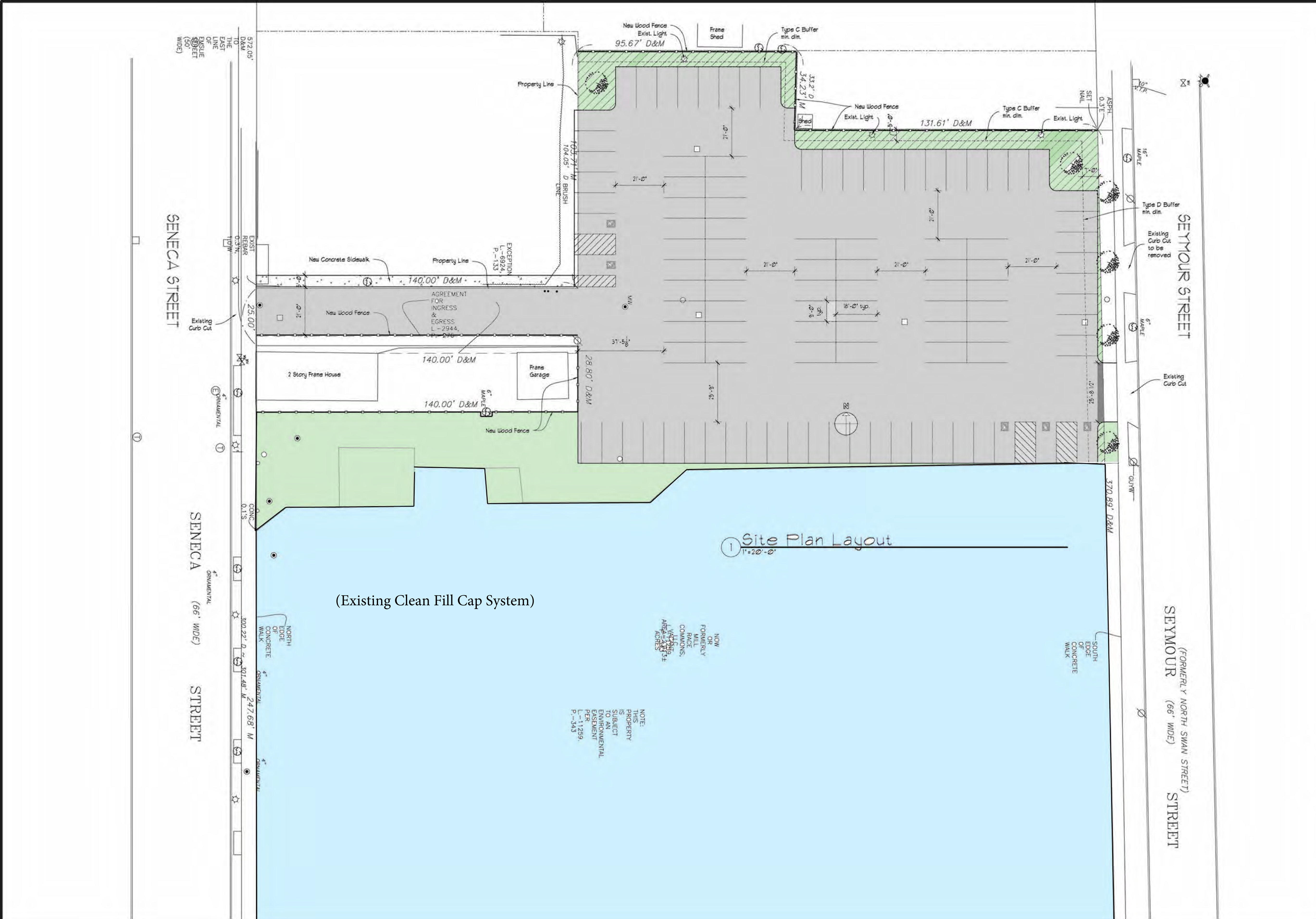
U.S.G.S. QUADRANGLE: BUFFALO NE, NEW YORK

8644 Buffalo Avenue
Niagara Falls, NY 14304
p.716.283.7645
f. 716.283.2858

PROJECT LOCUS

FORMER AMERICAN LINEN SUPPLY COMPANY
822 SENECA STREET
BUFFALO, NEW YORK

Figure 1



Key:

- New Asphalt
- New Landscaping
- New Concrete

Site Map and Revised Cover System

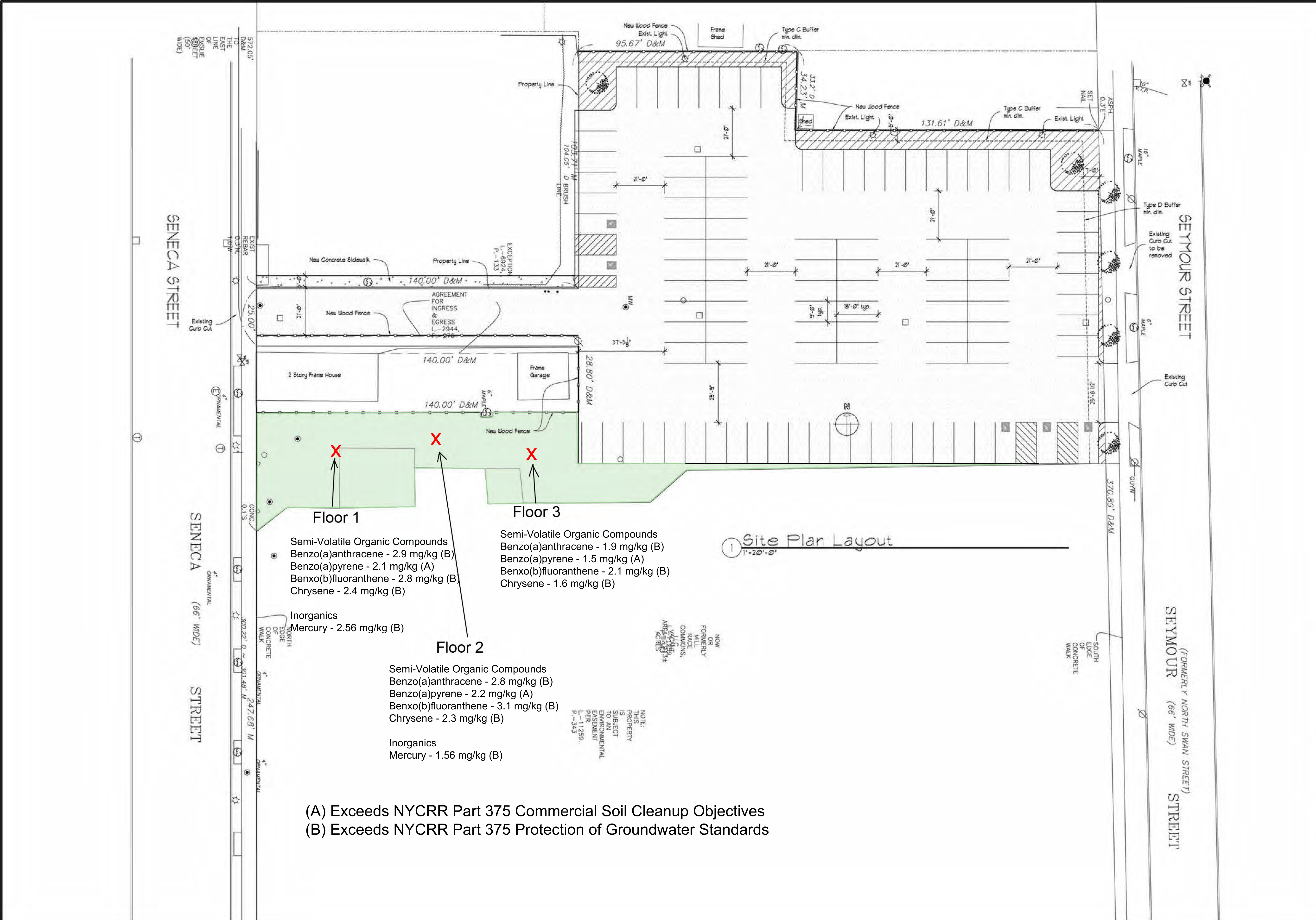
Former American Linen Supply Compnay Facility (C915241)
822 Seneca Street
Buffalo Ny 14220

AFI ENVIRONMENTAL

I20B - Larkin Development
Ameripride Site

Figure 2

rev1mmrr
04/06/2020



Key:

- New Asphalt
- New Landscaping
- New Concrete

Residual Soil Conditions Beneath the Demarcation Layer in Locationof Cap Modification

Former American Linen Suply Company Facility (C915241)
822 Seneca Street
Buffalo NY 14220

AFI ENVIRONMENTAL

I20B - Larkin Development
Ameripride Site

Figure 3

rev1mmrr
04/06/2020

Tables

Table 1
Former American Linen Supply Company Facility Change in Use Quantities and Source of Soil/Fill Imported
I20B Larkin Development Ameripride Site
822 Seneca Street
Buffalo, New York 14210
Site ID. C915241

Material	Quantity	Source
No.1 Stone	22.00 tons	New Enterprise Stone & Lime
2" Crusher Run	64.26 tons	New Enterprise Stone & Lime
Tpe 7F2 Asphalt	510.18 tons	New Enterprise Stone & Lime
Top Soil	455.00 CY	CJ Krantz

<u>Appendix A</u>

Photo Log of Change in Use Construction Activities

		
Photo 31 – Beginning the removal of asphalt concrete and soils to the east of the 798 Seneca Street property	**Photo 32 – Stockpiled asphalt removed from the area to the east of 798 Seneca Street**	**Photo 33 – Concrete vault above the two (2) Closed in place(CIP) USTs**
		
Photo 34 – PID readings of soils near the CIP USTs	**Photo 35 –Excavation near the western CIP UST**	**Photo 36 – PID measurements of soil encountered in the NE portion of the excavation near the CIP USTs**
		
Photo 37 – PID measurements of soil encountered in the SE portion of the excavation near the CIP USTs	**Photo 38 – PID measurements of soil encountered in the NW portion of the excavation near the CIP USTs**	**Photo 39 – PID measurements of soil encountered in the SW portion of the excavation near the CIP USTs**

		
Photo 40 – PID measurements of the excavated soils in between the two CIP USTs	**Photo 41 – Removal of asphalt, concrete and impacted soil in the area to the east of 798 Seneca Street, Viewed from the S**	**Photo 42 – Removal of asphalt, concrete, and impacted soil in the area to the east of 798 Seneca Street, Viewed from the NE**
		
Photo 43 –Removal of asphalt, concrete and impacted soil in the area to the east of 798 Seneca Street, Viewed from the NW	**Photo 44 –Geotextile placement viewed from the NW**	**Photo 45 – Clean fill placement viewed from the NW**
		
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Photo 49 – Final Grading viewed from the SW	**Photo 50 –Final grading viewed from the SE**	**Photo 51 – Final grading viewed from the NW**
		
Photo 52 – Final Grading of area viewed from the south	**Photo 53 – Hydroseeding after final grading**	**Photo 54 – Hydroseeding after final grading**

AFI ENVIRONMENTAL
8644 Buffalo Ave
Niagara Falls, New York

LCO AmeriPride
822 Seneca Street
Buffalo NY 14220
Change in Use Photo Log

Photo 1 – Saw cutting of existing pavement

Photo 2 – Saw cutting of existing pavement

Photo 3 – Saw cutting of existing pavement along Seymore Street

Photo 4 – Excavation in the NW corner of the site for landscaping

Photo 5 – Stockpile of excavated soils

Photo 6 – Excavation floor in NW corner of the property

Photo 7 – NW corner after backfill with 2’ of clean soil from CJ Krantz

Photo 8 –Removal of Existing Fence posts

Photo 9 – Stockpiled soil for disposal, removal of fence posts

Photo 10 – Excavation of catch basin for replacement

Photo 11 – Excavation after catch basin has been removed

Photo 12 – Placement of new catch basin

LCO AmeriPride
822 Seneca Street
Buffalo NY 14220
Change in Use Photo Log

		
Photo 13 –Placement of new catch basin	**Photo 14 – New catch basin and associated drainage lines**	**Photo 15 – Auguring for placement of new fence**
		
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Photo 19 – Asphalt patch after the drainage upgrades have been completed	**Photo 20 – Leveling of asphalt prior to topcoat**	**Photo 21 – Viewing parking area from the NW corner of the site prior to placement of topcoat**

LCO AmeriPride
822 Seneca Street
Buffalo NY 14220
Change in Use Photo Log

		
Photo 22 – Viewing parking area from the NE corner of the site prior to placement of topcoat	**Photo 23 – Viewing parking area from the SE corner of the site prior to placement of topcoat**	**Photo 24 – Leveled surfaces of asphalt adjacent to new catch basin prior to topcoat**
		
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Photo 28 – Viewing the Site from the NW after the placement of topcoat	**Photo 29 – Viewing the Site from the NE after the placement of topcoat**	**Photo 30 – Viewing the area to the East of 798 Seneca Street prior to asphalt and concrete removal**

Appendix B

Imported Fill Scale Tickets

New Enterprise Stone & Lime Co., Inc.

500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342

PLANT INFORMATION: - 54230100 - WEHRLE AGGREGATES (716) 586-9633

ORDER NO.	TICKET NUMBER	SCALE	AUTO/MANUAL	DATE	TIME
1000233168	50239732	1	W	07/02/2020	6:48 am

SOLD TO:
Michael Serafini Inc
3529 Broadway
Cheektowaga, NY 14227-

CUSTOMER: 83291
PHONE:
PO #: 2020 SEASONAL CUSTOM- 21/23

SHIP TO:

QUOTE:
STATE: NY
ZONE:

PRODUCT ID	PRODUCT DESCRIPTION
280300	STONE, 2" CRUSHER RUN

JOB NAME / LOCATION: 2020 SEASONAL CUSTOM- 21/23 | Item

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 SEASONAL CUSTOM- 21/23

TAG NO	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
22136MJ	0	BDI103	Dig It Of New York LLC	82815

FREIGHT	FREIGHT COLLECT		ACCUMULATIVE QUANTITIES		PAYMENT METHOD		
PICKUP	77.000				CREDIT		
US WEIGHT 70,460	35.23 Ton	GROSS	ORDERED 0.00		MATERIAL		
29,940	14.97 Ton	TARE	TODAY 20.26	LOADS 1	HAUL		
40,520	20.26 Ton	NET	TODATE 257.58	LOADS 13	ADD'L CHARGES		
20.26		Ton	ACCUMULATED CASH SALE		TAX		

WEIGHED BY: 14540

TOTAL THIS LOAD

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME | JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION. YOUR SIGNATURE OR ACTUAL RECEIPT/DELIVERY ACKNOWLEDGES ACCEPTANCE OF THE CONDITIONS ON THE BACK OF THIS TICKET

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER 30 DAYS PAST DUE

X

Plant #: 54230100 Ticket #: 50239732 PICKUP

Have a good and safe day

HAULER

Void - Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510371 - COMO SS HOT MIX ASPHALT (716) 826-7310

ORDER NO. 1000265574	TICKET NUMBER 50668011	SILO 1	PLANT ID. H0096	DATE 10/27/2020	TIME 9:14 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES 0	TRUCK B71NE52	CARRIER NAME	CARRIER CODE

MIX CODE 261072	PRODUCT DESCRIPTION TYPE 3 BINDER F9	TONS REQUESTED 15.95 Ton

WEIGHED BY
Auto Print (Do Not Delete)

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME | JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Time:	No:	Tare	AG4	AG3	AG2	AG1	RP1	Tare	CM1	Total	DRY	WET
Min			2027	4219	5238	9505	10060		447			
Target			2187	4379	5398	9665	10210		458			
Max		30	2347	4539	5558	9825	10360	6	469			
09:11:42	1	0	2160	4380	5400	9800	10138	-5	460	10598		
09:12:46	2	0	2140	4380	5340	9520	10309	5	465	10774		
09:14:11	3	20	2180	4400	5360	9640	10072	5	455	10527		

Total Net Loaded: 31,899 lb 15.95 tn

Control Mode	Auto
%Moisture RAP:	6.10 %
%AC in RAP:	6.00 %
%Virgin AC:	4.33 %
%AC in Mix:	4.62 %

Truck Gross:	31,919 lb	15.96 Ton	Today Loads	1
Truck Tare:	20 lb	0.01 Ton	To Date Loads	1
Truck Net:	31,899 lb	15.95 Ton	Today Quantity	15.95 Ton
			To Date Quantity	15.95 Ton

Contact us for all your spring lime needs.

Plant #: 54510371 Ticket #: 50668011 PICKUP

Original - Customer

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510371 - COMO SS HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	50668030	1	H0096	10/27/2020	11:08 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

ITEM

JOB NAME / LOCATION
2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

CARRIER CODE

TAG NO. | AXLES 0 | TRUCK B71B19 | CARRIER NAME

TONS REQUESTED
12.03 Ton

MIX CODE
261072

PRODUCT DESCRIPTION
TYPE 3 BINDER F9

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

WEIGHED BY
Auto Print (Do Not Delete)

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME | JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Time:	No:	Tare	AG4	AG3	AG2	AG1	RP1	Tare	CM1	Total	DRY	WET
Min			2280	4746	5892	10692	11316		503			
Target			2460	4926	6072	10872	11485		515			
Max		30	2640	5106	6252	11052	11654	6	527			
11:06:08	1	0	2460	4960	6100	10900	11501	0	510	12011		
11:08:02	2	0	2480	4920	6060	10820	11534	5	515	12049		

Total Net Loaded: 24,060 lb 12.03 tn

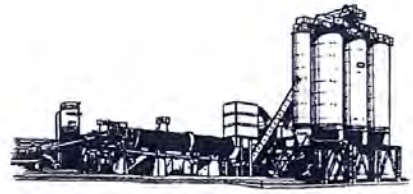
Control Mode	Auto
%Moisture RAP:	6.10 %
%AC in RAP:	6.00 %
%Virgin AC:	4.26 %
%AC in Mix:	4.59 %

Truck Gross:	24,080 lb	12.04 Ton	Today Loads	3
Truck Tare:	20 lb	0.01 Ton	To Date Loads	3
Truck Net:	24,060 lb	12.03 Ton	Today Quantity	43.87 Ton
			To Date Quantity	43.87 Ton

Plant #: 54510371 Ticket #: 50668030 PICKUP

Original - Customer

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com



54510371 - COMO SS HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	50668051	1		10/27/2020	2:05 pm

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF: Type 7F2
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B71NE42		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	10.92 Ton

WEIGHED BY
Auto Print (Do Not Delete)

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME | JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Time:	No:	Tare	AG2	AG1	RP1	Tare	CM1	Total	DRY	WET
Min			4554	9636	10208		626			
Target			4719	9801	10363		637			
Max		30	4884	9966	10518	6	648			
* 14:04:07	1	0	4680	10020*	10302	0	635	10937		
14:05:20	2	0	4660	9660	10261	5	640	10901		

Total Net Loaded: 21,838 lb 10.92 tn

Control Mode	Auto
%Moisture RAP:	6.10 %
%AC in RAP:	6.00 %
%Virgin AC:	5.84 %
%AC in Mix:	6.08 %

Truck Gross:	21,858 lb	10.93 Ton	Today Loads	1
Truck Tare:	20 lb	0.01 Ton	To Date Loads	1
Truck Net:	21,838 lb	10.92 Ton	Today Quantity	10.92 Ton
			To Date Quantity	10.92 Ton

Contact us for all your spring lime needs.

Plant #: 54510371 Ticket #: 50668051 PICKUP

Hauler

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510371 - COMO SS HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	50668053	1		10/27/2020	2:23 pm

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF: Type 7F2
Mix:

ITEM

JOB NAME / LOCATION
2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

CARRIER CODE

TAG NO.	AXLES	TRUCK	CARRIER NAME
	0	B71B19	

TONS REQUESTED
21.94 Ton

MIX CODE
262875

PRODUCT DESCRIPTION
TYPE 7F2,F3 TOP-HIGH FRICTION

WEIGHED BY
Auto Print (Do Not Delete)

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

	Time:	No:	Tare	AG2	AG1	RP1	Tare	CM1	Total	DRY	WET
	Min			4554	9636	10208		626			
	Target			4719	9801	10363		637			
	Max		30	4884	9966	10518	6	648			
*	14:18:39	1	20	4640	10040*	10322	0	635	10957		
	14:19:52	2	20	4760	9820	10402	5	630	11032		
	14:21:05	3	20	4740	9780	10268	5	635	10903		
	14:23:31	4	20	4660	9780	10343	5	635	10978		

Total Net Loaded: 43,870 lb 21.94 tn

Control Mode	Auto
%Moisture RAP:	6.10 %
%AC in RAP:	6.00 %
%Virgin AC:	5.78 %
%AC in Mix:	6.04 %

Truck Gross:	43,890 lb	21.95 Ton	Today Loads	2
Truck Tare:	20 lb	0.01 Ton	To Date Loads	2
Truck Net:	43,870 lb	21.94 Ton	Today Quantity	32.86 Ton
			To Date Quantity	32.86 Ton

Contact us for all your spring lime needs.

Plant #: 54510371 Ticket #: 50668053 PICKUP

Original - Customer

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412416	S1	H0250	10/27/2020	10:50 am

SOLD TO: Northeast Diversification #2 Cadby Industrial Park Lancaster, NY 14086-	CUSTOMER: 81564 PHONE: PO #: 2020 500 Seneca St- 51
SHIP TO:	QUOTE: STATE NY ZONE: JMF: Mix:

JOB NAME / LOCATION 2020 500 Seneca St- 51	ITEM
JOB REQUIRED NUMBERS COUNTY: ERIE 2020 500 Seneca St- 51	PAYMENT METHOD CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B51NE41		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	22.06 Ton

WEIGHED BY Mike Wawrzyniak	HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.	
INSPECTOR'S SIGNATURE	JOB ARRIVAL TIME	JOB DEPARTURE TIME
RECEIVED ABOVE MATERIAL IN GOOD CONDITION X	A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.	

Truck Gross :	73,380 lb	36.69 Ton	Today Loads:	1
Truck Tare :	29,260 lb	14.63 Ton	To Date Loads:	1
Truck Net :	44,120 lb	22.06 Ton	Today Quantity:	22.06 Ton
			To Date Quantity:	22.06 Ton

Plant #: 54510373 Ticket #: 51412416 PICKUP

Duplicate Customer

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO. 1000265574	TICKET NUMBER 51412417	SILO S1	PLANT ID. H0250	DATE 10/27/2020	TIME 11:08 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

ITEM

JOB NAME / LOCATION
2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

JOB REQUIRED NUMBERS 2020 500 Seneca St- 51
COUNTY: ERIE

CARRIER CODE

TAG NO.	AXLES	TRUCK	CARRIER NAME	TONS REQUESTED
48214JY	3	B51B19		21.98 Ton

MIX CODE
262875

PRODUCT DESCRIPTION
TYPE 7F2,F3 TOP-HIGH FRICTION

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

WEIGHED BY Mike Wawrzyniak

JOB ARRIVAL TIME

JOB DEPARTURE TIME

INSPECTOR'S SIGNATURE

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

X

Truck Gross :	70,840 lb	35.42 Ton	Today Loads	2
Truck Tare :	26,880 lb	13.44 Ton	To Date Loads	2
Truck Net :	43,960 lb	21.98 Ton	Today Quantity	44.04 Ton
			To Date Quantity	44.04 Ton

Plant #: 54510373 Ticket #: 51412417 PICKUP

Duplicate Customer

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO. 1000265574	TICKET NUMBER 51412420	SILO S1	PLANT ID. H0250	DATE 10/27/2020	TIME 12:31 pm

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

ITEM

JOB NAME / LOCATION
2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

JOB REQUIRED NUMBERS 2020 500 Seneca St- 51
COUNTY: ERIE

CARRIER CODE

TAG NO.	AXLES	TRUCK	CARRIER NAME
32384mk	0	B51NE52	

TONS REQUESTED
21.13 Ton

MIX CODE
262875

PRODUCT DESCRIPTION
TYPE 7F2,F3 TOP-HIGH FRICTION

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

WEIGHED BY Mike Wawrzyniak

JOB ARRIVAL TIME

JOB DEPARTURE TIME

INSPECTOR'S SIGNATURE

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

Truck Gross :	72,280 lb	36.14 Ton	Today Loads:	3		
Truck Tare :	30,020 lb	15.01 Ton	To Date Loads:	3		
Truck Net :	42,260 lb	21.13 Ton	Today Quantity:		65.17 Ton	
			To Date Quantity:		65.17 Ton	

Plant #: 54510373 Ticket #: 51412420 PICKUP

Duplicate Customer

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412424	S1	H0250	10/27/2020	1:56 pm

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564

PHONE:

PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

ITEM

JOB NAME / LOCATION
2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

JOB REQUIRED NUMBERS 2020 500 Seneca St- 51
COUNTY: ERIE

CARRIER CODE

TAG NO.	AXLES	TRUCK	CARRIER NAME
	0	B51NE41	

TONS REQUESTED
21.93 Ton

MIX CODE	PRODUCT DESCRIPTION
262875	TYPE 7F2,F3 TOP-HIGH FRICTION

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

WEIGHED BY Mike Wawrzyniak

JOB ARRIVAL TIME

JOB DEPARTURE TIME

INSPECTOR'S SIGNATURE

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Truck Gross :	73,200 lb	36.60 Ton	Today Loads	4
Truck Tare :	29,340 lb	14.67 Ton	To Date Loads	4
Truck Net :	43,860 lb	21.93 Ton	Today Quantity	87.10 Ton
			To Date Quantity	87.10 Ton

Plant #: 54510373 Ticket #: 51412424 PICKUP

Duplicate Customer

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO. 1000265574	TICKET NUMBER 51412425	SILO S1	PLANT ID. H0250	DATE 10/27/2020	TIME 2:01 pm

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564

PHONE:

PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B51NE42		

MIX CODE
262875

PRODUCT DESCRIPTION
TYPE 7F2,F3 TOP-HIGH FRICTION

TONS REQUESTED
9.90 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Truck Gross:	49,320 lb	24.66 Ton	Today Loads	5	
Truck Tare:	29,520 lb	14.76 Ton	To Date Loads	5	
Truck Net:	19,800 lb	9.90 Ton	Today Quantity		97.00 Ton
			To Date Quantity		97.00 Ton

Plant #: 54510373 Ticket #: 51412425 PICKUP

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510371 - COMO SS HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	50668081	1		10/28/2020	12:46 pm

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF: Type 7F2
Mix:

JOB NAME / LOCATION	ITEM
2020 500 Seneca St- 51	

JOB REQUIRED NUMBERS	PAYMENT METHOD
COUNTY: ERIE 2020 500 Seneca St- 51	CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B71B19		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	22.06 Ton

WEIGHED BY
Auto Print (Do Not Delete)

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME | JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Time:	No:	Tare	AG2	AG1	RP1	Tare	CM1	Total	DRY	WET
Min			4554	9636	10208		626			
Target			4719	9801	10363		637			
Max		30	4884	9966	10518	6	648			
* 12:39:46	1	0	4560	9780	10663*	0	635	11298		
12:41:08	2	20	4640	9840	10441	5	630	11071		
12:43:18	3	0	4600	9700	10188	5	630	10818		
12:46:02	4	20	4680	9940	10297	5	635	10932		

Total Net Loaded: 44,119 lb 22.06 tn

Control Mode	Auto
%Moisture RAP:	6.10 %
%AC in RAP:	6.00 %
%Virgin AC:	5.73 %
%AC in Mix:	6.05 %

Truck Gross:	44,139 lb	22.07 Ton	Today Loads	1
Truck Tare:	20 lb	0.01 Ton	To Date Loads	4
Truck Net:	44,119 lb	22.06 Ton	Today Quantity	22.06 Ton
			To Date Quantity	75.91 Ton

Contact us for all your spring lime needs.

Plant #: 54510371 Ticket #: 50668081 PICKUP

Original - Customer

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510371 - COMO SS HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	50668084	1		10/28/2020	1:03 pm

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF: Type 7F2
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B71NE42		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	21.36 Ton

WEIGHED BY
Auto Print (Do Not Delete)

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME | JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Time:	No:	Tare	AG2	AG1	RP1	Tare	CM1	Total	DRY	WET
Min			4451	9418	9977		612			
Target			4612	9579	10128		623			
Max		30	4773	9740	10279	6	634			
12:55:38	1	0	4680	9600	10032	-5	620	10652		
12:58:05	2	20	4520	9660	10092	5	625	10717		
13:00:45	3	0	4540	9540	10085	5	620	10705		
13:03:26	4	0	4760	9540	10028	5	615	10643		

Total Net Loaded: 42,717 lb 21.36 tn

Control Mode	Auto
%Moisture RAP:	6.10 %
%AC in RAP:	6.00 %
%Virgin AC:	5.81 %
%AC in Mix:	6.07 %

Truck Gross:	42,737 lb	21.37 Ton	Today Loads	2
Truck Tare:	20 lb	0.01 Ton	To Date Loads	5
Truck Net:	42,717 lb	21.36 Ton	Today Quantity	43.42 Ton
			To Date Quantity	97.27 Ton

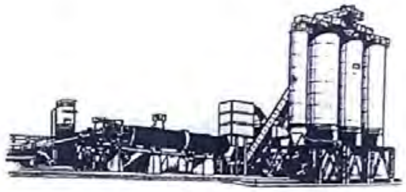
Contact us for all your spring lime needs.

Plant #: 54510371 Ticket #: 50668084 PICKUP

Hauler

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com



54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412427	S4	H0250	10/28/2020	7:17 am

SOLD TO: Northeast Diversification #2 Cadby Industrial Park Lancaster, NY 14086-	CUSTOMER: 81564 PHONE: PO #: 2020 500 Seneca St- 51
SHIP TO:	QUOTE: STATE NY ZONE: JMF: Mix:
JOB NAME / LOCATION 2020 500 Seneca St- 51	ITEM
JOB REQUIRED NUMBERS COUNTY: ERIE 2020 500 Seneca St- 51	PAYMENT METHOD CREDIT
TAG NO. 32384mk / AXLES 0 / TRUCK B51NE52 / CARRIER NAME	CARRIER CODE
MIX CODE 262875 / PRODUCT DESCRIPTION TYPE 7F2,F3 TOP-HIGH FRICTION	TONS REQUESTED 21.07 Ton
WEIGHED BY Mike Wawrzyniak	HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.
INSPECTOR'S SIGNATURE	JOB ARRIVAL TIME / JOB DEPARTURE TIME
RECEIVED ABOVE MATERIAL IN GOOD CONDITION X	A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE

Truck Gross :	72,400 lb	36.20 Ton	Today Loads	1	
Truck Tare :	30,260 lb	15.13 Ton	To Date Loads	6	
Truck Net :	42,140 lb	21.07 Ton	Today Quantity		21.07 Ton
			To Date Quantity		118.07 Ton

Plant #: 54510373 Ticket #: 51412427 PICKUP

Duplicate Customer

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412428	S4	H0250	10/28/2020	7:19 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564

PHONE:

PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B51NE41		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	22.01 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

X

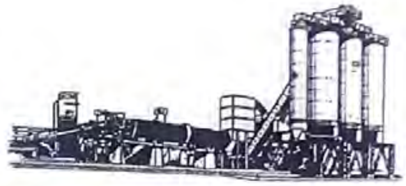
A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Truck Gross :	73,580 lb	36.79 Ton	Today Loads	2	
Truck Tare :	29,560 lb	14.78 Ton	To Date Loads	7	
Truck Net :	44,020 lb	22.01 Ton	Today Quantity		43.08 Ton
			To Date Quantity		140.08 Ton

Plant #: 54510373 Ticket #: 51412428 PICKUP

Copy 5

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com



54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412429	S4	H0250	10/28/2020	7:55 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B51B22		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	21.93 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Truck Gross :	72,280 lb	36.14 Ton	Today Loads	3	
Truck Tare :	28,420 lb	14.21 Ton	To Date Loads	8	
Truck Net :	43,860 lb	21.93 Ton	Today Quantity		65.01 Ton
			To Date Quantity		162.01 Ton

Plant #: 54510373 Ticket #: 51412429 PICKUP

Copy 5

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500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412430	S4	H0250	10/28/2020	7:58 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
48214JY	3	B51B19		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	21.94 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

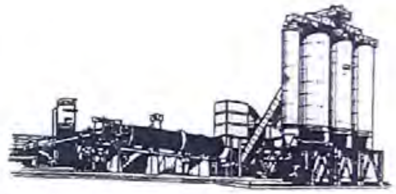
Truck Gross :	71,140 lb	35.57 Ton	Today Loads	4	
Truck Tare :	27,260 lb	13.63 Ton	To Date Loads	9	
Truck Net :	43,880 lb	21.94 Ton	Today Quantity		86.95 Ton
			To Date Quantity		183.95 Ton

Plant #: 54510373 Ticket #: 51412430 PICKUP

Duplicate Customer

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com



54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412431	S4	H0250	10/28/2020	8:37 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564

PHONE:

PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B51NE42		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	21.20 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Truck Gross :	72,060 lb	36.03 Ton	Today Loads	5
Truck Tare :	29,660 lb	14.83 Ton	To Date Loads	11
Truck Net :	42,400 lb	21.20 Ton	Today Quantity	108.15 Ton
			To Date Quantity	227.09 Ton

Plant #: 54510373 Ticket #: 51412431 PICKUP

Copy 5

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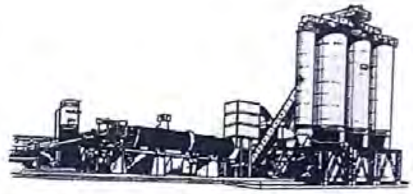
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com



54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412435	S4	H0250	10/28/2020	9:57 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
32384mk	0	B51NE52		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	21.05 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

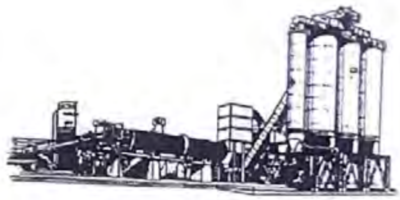
Truck Gross:	72,260 lb	36.13 Ton	Today Loads	6	
Truck Tare:	30,160 lb	15.08 Ton	To Date Loads	11	
Truck Net:	42,100 lb	21.05 Ton	Today Quantity		129.20 Ton
			To Date Quantity		226.20 Ton

Plant #: 54510373 Ticket #: 51412435 PICKUP

Duplicate Customer

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com



54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412439	S4	H0250	10/28/2020	10:11 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B51NE41		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	21.95 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Truck Gross:	73,400 lb	36.70 Ton	Today Loads:	7
Truck Tare:	29,500 lb	14.75 Ton	To Date Loads:	12
Truck Net:	43,900 lb	21.95 Ton	Today Quantity:	151.15 Ton
			To Date Quantity:	248.15 Ton

Plant #: 54510373 Ticket #: 51412439 PICKUP

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500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412444	S4	H0250	10/28/2020	10:33 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B51B22		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	21.96 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME | JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

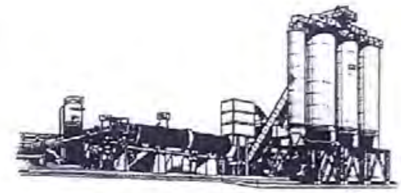
A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Truck Gross :	72,300 lb	36.15 Ton	Today Loads	8	
Truck Tare :	28,380 lb	14.19 Ton	To Date Loads	13	
Truck Net :	43,920 lb	21.96 Ton	Today Quantity		173.11 Ton
			To Date Quantity		270.11 Ton

Plant #: 54510373 Ticket #: 51412444 PICKUP

Copy 5

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com



54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412446	S4	H0250	10/28/2020	10:52 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
48214JY	3	B51B19		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	21.95 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Truck Gross:	71,120 lb	35.56 Ton	Today Loads	9
Truck Tare:	27,220 lb	13.61 Ton	To Date Loads	14
Truck Net:	43,900 lb	21.95 Ton	Today Quantity	195.06 Ton
			To Date Quantity	292.06 Ton

Plant #: 54510373 Ticket #: 51412446 PICKUP

Duplicate Customer

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412448	S4	H0250	10/28/2020	11:06 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B51NE42		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	20.95 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Truck Gross :	71,520 lb	35.76 Ton	Today Loads	10
Truck Tare :	29,620 lb	14.81 Ton	To Date Loads	15
Truck Net :	41,900 lb	20.95 Ton	Today Quantity	216.01 Ton
			To Date Quantity	313.01 Ton

Plant #: 54510373 Ticket #: 51412448 PICKUP

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412453	S4	H0250	10/28/2020	11:44 am

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
32384mk	0	B51NE52		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	20.93 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Truck Gross :	72,000	lb	36.00	Ton	Today Loads	11	
Truck Tare :	30,140	lb	15.07	Ton	To Date Loads	17	
Truck Net :	41,860	lb	20.93	Ton	Today Quantity		236.94 Ton
					To Date Quantity		354.89 Ton

Plant #: 54510373 Ticket #: 51412453 PICKUP

Duplicate Customer

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510373 - COMO #3 HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	51412456	S4	H0250	10/28/2020	12:08 pm

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION	ITEM
2020 500 Seneca St- 51	

JOB REQUIRED NUMBERS	PAYMENT METHOD
COUNTY: ERIE 2020 500 Seneca St- 51	CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B51NE41		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
262875	TYPE 7F2,F3 TOP-HIGH FRICTION	8.60 Ton

WEIGHED BY
Mike Wawrzyniak

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE	JOB ARRIVAL TIME	JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Truck Gross :	46,680 lb	23.34 Ton	Today Loads	12	
Truck Tare :	29,480 lb	14.74 Ton	To Date Loads	17	
Truck Net :	17,200 lb	8.60 Ton	Today Quantity		245.54 Ton
			To Date Quantity		342.54 Ton

Plant #: 54510373 Ticket #: 51412456 PICKUP

Duplicate Customer Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510371 - COMO SS HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	50668075	1		10/28/2020	12:16 pm

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564

PHONE:

PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B71NE41		

MIX CODE
261085

PRODUCT DESCRIPTION
TYPE 7F2 ,F3 TOP HIGH FRICTION

TONS REQUESTED
13.51 Ton

WEIGHED BY
Auto Print (Do Not Delete)

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Time:	No:	Tare	AG2	AG1	Tare	CM1	Total	DRY	WET
Min			3578	8308		549			
Target			3713	8443		558			
Max		30	3848	8578	6	567			
12:11:31	1	0	3700	8460	0	555	9015		
12:14:34	2	20	3720	8420	5	555	8975		
12:15:59	3	20	3680	8460	5	565	9025		

Total Net Loaded: 27,015 lb 13.51 tn

Control Mode Auto

Truck Gross :	27,035 lb	13.52 Ton	Today Loads	1	
Truck Tare :	20 lb	0.01 Ton	To Date Loads	1	
Truck Net :	27,015 lb	13.51 Ton	Today Quantity		13.51 Ton
			To Date Quantity		13.51 Ton

Contact us for all your spring lime needs.

Plant #: 54510371 Ticket #: 50668075 PICKUP

Original - Customer

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com

54510371 - COMO SS HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	50668077	1		10/28/2020	12:26 pm

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564

PHONE:

PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B71BECK		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
261085	TYPE 7F2 ,F3 TOP HIGH FRICTION	21.98 Ton

WEIGHED BY
Auto Print (Do Not Delete)

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Time:	No:	Tare	AG2	AG1	Tare	CM1	Total	DRY	WET
Min			4373	10154		671			
Target			4538	10319		682			
Max		30	4703	10484	6	693			
12:22:27	1	0	4520	10280	5	680	10960		
12:23:40	2	0	4480	10300	5	675	10975		
12:24:52	3	0	4580	10360	5	690	11050		
12:26:03	4	0	4540	10300	5	675	10975		

Total Net Loaded: 43,960 lb 21.98 tn

Control Mode Auto

Truck Gross :	43,980 lb	21.99 Ton	Today Loads	2
Truck Tare:	20 lb	0.01 Ton	To Date Loads	2
Truck Net :	43,960 lb	21.98 Ton	Today Quantity	35.49 Ton
			To Date Quantity	35.49 Ton

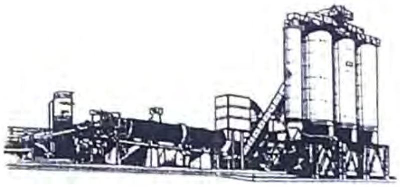
Contact us for all your spring lime needs.

Plant #: 54510371 Ticket #: 50668077 PICKUP

Hauler

Void – Customer Do Not Accept

New Enterprise Stone & Lime Co., Inc.
500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342
http://www.nesl.com



54510371 - COMO SS HOT MIX ASPHALT (716) 826-7310

ORDER NO.	TICKET NUMBER	SILO	PLANT ID.	DATE	TIME
1000265574	50668092	1		10/28/2020	3:07 pm

SOLD TO:
Northeast Diversification
#2 Cadby Industrial Park
Lancaster, NY 14086-

CUSTOMER: 81564
PHONE:
PO #: 2020 500 Seneca St- 51

SHIP TO:

QUOTE:
STATE NY
ZONE:
JMF:
Mix:

JOB NAME / LOCATION
2020 500 Seneca St- 51

ITEM

JOB REQUIRED NUMBERS
COUNTY: ERIE 2020 500 Seneca St- 51

PAYMENT METHOD
CREDIT

TAG NO.	AXLES	TRUCK	CARRIER NAME	CARRIER CODE
	0	B71NE52		

MIX CODE	PRODUCT DESCRIPTION	TONS REQUESTED
261085	TYPE 7F2 ,F3 TOP HIGH FRICTION	12.00 Ton

WEIGHED BY
Auto Print (Do Not Delete)

HOT MIXED ASPHALT CAN CAUSE THERMAL BURNS WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION.

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER30 DAYS PAST DUE.

Time:	No:	Tare	AG2	AG1	Tare	CM1	Total	DRY	WET
Min			4770	11076		732			
Target			4950	11256		744			
Max		30	5130	11436	6	756			
15:03:51	1	0	4960	11380	0	745	12125		
15:07:09	2	20	4960	11120	5	745	11865		

Total Net Loaded: 23,990 lb 12.00 tn Control Mode Auto

Truck Gross :	24,010 lb	12.01 Ton	Today Loads	3
Truck Tare:	20 lb	0.01 Ton	To Date Loads	3
Truck Net :	23,990 lb	12.00 Ton	Today Quantity	47.49 Ton
			To Date Quantity	47.49 Ton

Contact us for all your spring lime needs.

Plant #: 54510371 Ticket #: 50668092 PICKUP

Original - Customer

C.J. KRANTZ ORGANICS
Since 1939
TOPSOIL • MULCH • COMPOST • STONE
www.krantztopsoil.com • 1(800)TOPSOIL

8960 Lapp Rd.
Clarence, NY 14032
(716) 741-3850 • Fax 741-8489

54788

AM
PM ASAP

DATE 7/21/20

NAME Dan's Snowplowing

ADDRESS 822 Seneca St

DIRECTIONS (OFF)

(NEAR)

(TOWN) Buffalo

PHONE

C.O.D.	YOUR TRUCK 91	CHARGE	
	2x 10 YARD LOAD OF: Premium Soil 20 gr		
	SALES TAX		
RECEIVED BY: X	TOTAL		

Because the response of the products sold by C.J. Krantz Topsoil Inc. are vulnerable to both climactic conditions and maintenance by parties other than the seller, THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED OF THE MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. Materials will not be delivered beyond curb without the authority of a contractor, owner, agent or agent believed to be the agent who assumes all responsibility for damage and delay. All customers will accept full responsibility for dumping beyond the curb. This waiver will release C.J. Krantz Topsoil Inc. from any damage caused by our vehicles. Customer will accept all towing costs for trucks. A $35.00 returned check fee plus all collection and legal fees plus 25% will apply.

DUMPING INSTRUCTIONS:

PAID CASH .... PAID CHECK .... CHARGE ....

C.J. KRANTZ ORGANICS
Since 1939
TOPSOIL • MULCH • COMPOST • STONE
www.krantztopsoil.com • 1(800)TOPSOIL

8960 Lapp Rd.
Clarence, NY 14032
(716) 741-3850 • Fax 741-8489

54789

AM ASAP
PM

DATE 7/21/20

NAME Dan's Snow

ADDRESS 822 Seneca

DIRECTIONS (OFF)

(NEAR)

(TOWN) Buffalo

PHONE

C.O.D.	YOUR TRUCK 96	CHARGE	
20 #96 20 #96 20 #96	YARD LOAD OF: Premium soil		
	SALES TAX		
RECEIVED BY: X	TOTAL		

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DUMPING INSTRUCTIONS:

PAID CASH .... PAID CHECK .... CHARGE ....

54790

C.J. KRANTZ ORGANICS
Since 1939
TOPSOIL · MULCH · COMPOST · STONE
www.krantztopsoil.com • 1(800)TOPSOIL

8960 Lapp Rd.
Clarence, NY 14032
(716) 741-3850 · Fax 741-8489

AM ASAP
PM

DATE 7/21/20

NAME Dan's Snow

ADDRESS Seneca St

DIRECTIONS (OFF)

(NEAR)

(TOWN) Buffalo

PHONE

C.O.D.	YOUR TRUCK #95 BB	CHARGE	
1)	20 YARD LOAD OF: premium	2:30	
	SALES TAX		
RECEIVED BY: X	TOTAL		

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DUMPING INSTRUCTIONS:

PAID CASH .... PAID CHECK .... CHARGE ....

54800

C.J. KRANTZ ORGANICS
Since 1939
TOPSOIL · MULCH · COMPOST · STONE
www.krantztopsoil.com • 1(800)TOPSOIL

8960 Lapp Rd.
Clarence, NY 14032
(716) 741-3850 · Fax 741-8489

AM ASAP
PM

DATE 7/21/20

NAME Dan's Snowplowing

ADDRESS 822 Seneca St

DIRECTIONS (OFF)

(NEAR)

(TOWN) Buffalo

PHONE

C.O.D.	YOUR TRUCK #92 paul	CHARGE	
2/	10's YARD LOAD OF: prem		
	SALES TAX		
RECEIVED BY: X	TOTAL		

Because the response of the products sold by C.J. Krantz Topsoil Inc. are vulnerable to both climactic conditions and maintenance by parties other than the seller, THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED OF THE MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. Materials will not be delivered beyond curb without the authority of a contractor, owner, agent or agent believed to be the agent who assumes all responsibility for damage and delay. All customers will accept full responsibility for dumping beyond the curb. This waiver will release C.J. Krantz Topsoil Inc. from any damage caused by our vehicles. Customer will accept all towing costs for trucks. A $35.00 returned check fee plus all collection and legal fees plus 25% will apply.

DUMPING INSTRUCTIONS:

PAID CASH .... PAID CHECK .... CHARGE ....

New Heitz Site Services, LLC
8644 Buffalo Avenue
Niagara Falls, NY 14304
716-299-8885
accounting@new-heitz.com

INVOICE

BILL TO

AFI Environmental
8644 Buffalo Ave
Niagara Falls, New York 14304

INVOICE # 1234C
DATE 12/09/2020
DUE DATE 01/08/2021
TERMS Net 30

NEW HEITZ JOB #	**SITE LOCATION**	**CUSTOMER JOB #**
P19001	822 Seneca St, Buffalo, NY	I20B- Larkin Dev. AmeriPride

DATE	DESCRIPTION	QTY	RATE	AMOUNT
12/08/2020	Topsoil & Delivery	1	8,880.00	8,880.00

This invoice reflects the cost of topsoil and delivery fees from CJ Krantz, to 822 Seneca St.

BALANCE DUE **$8,880.00**

Contractor Exempt Cert ST-120.1 form on file.

4/7/2021
Store: 1

LCO 822 Seneca St.

Associate: DEBB[illegible]
Page 1

DELIVERY ORDER

Ordered: 4/7/2021

C.J. KRANTZ ORGANICS
Since 1939
TOPSOIL - MULCH - COMPOST - STONE

8960 Lapp Rd
Clarence Ctr, NY 14032
(716) 741-3850 FAX (716) 741-84

Due Date: 4/8/2021 **Time 9-1**

Deliver To:

AFI ENVIRONMENTAL
822 SENECA ST
BUFFALO, NY 14210
777-2729

Bill To:
AFI ENVIRONMENTAL
, 14210
777-2729

Order Status: Open

INSTRUCTIONS: ACROSS FROM THE NEW LARKIN BUILDING APARTMENTS

CREDIT CARD

Item Name	Size	Order	Sold	Due	Price	Ext Price	Tax
Premium Topsoil yard Delivered	yard	40	0	40	$37.00	$1,480.00	T

Total Qty Ordered: 4C 0 40

Percent Unfilled: 100

Local Sales Ta›

Subtotal:	$1,480.00
8.75 % Tax:	+ $129.50
Shipping:	+ $20.00
TOTAL:	**$1,629.50**
Deposit Balance:	**$0.00**
Balance Due:	$1,629.50

Thank you for your patronage!

Because the response of the products sold by C.J. Krantz Inc. are vulnerable to both climatic conditions and maintenance by parties other than the seller, THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED OF THE MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Materials will not be delivered beyond the curb without the authority of a contractor, owner, agent or agent believed to be the agent who assumes all responsibility for damage and delay. All customers will accept full responsibility for dumping beyond the curb. In the event the load cannot be placed in the area that is the customers first choice, an alternative dumping location must be used. Any delivery that is rejected by the customer will face a $75.00 returned load fee. This waiver will release C.J. Krantz Inc. from liability for any damage caused by our vehicles. Customer will accept all towing costs for our trucks if applicable. A $40.00 returned check fee plus all collection and legal fees plus 25% will apply. Not all products sold by C.J. Krantz are Organic.

I have read the above disclaimer and accept all of its terms and conditions:

____

Signature

<u>Appendix C</u>

Requests to Import Fill

NEW ENTERPRISE STONE & LIME CO., INC.
500 Como Park Boulevard • Buffalo NY 14227
Office: (716) 826-7310
Fax: (716) 826-1342
Dispatch: (716) 566-9690

May 6, 2020

Brandon Quinn
AFI Environmental
PO Box 4049
Niagara Falls, NY 14304

Re: 822 Seneca St.

Dear Brandon,

The Crushed Limestone Subbase material to be supplied to the above referenced project was extracted, crushed, and screened at our Lancaster, NY facility. The material is produced from a virgin stone source, un-impacted by hazardous materials or contaminants and free of loam, organic matter including clay. The Quarry is a NYSDOT approved source; the source number is 5-3R.

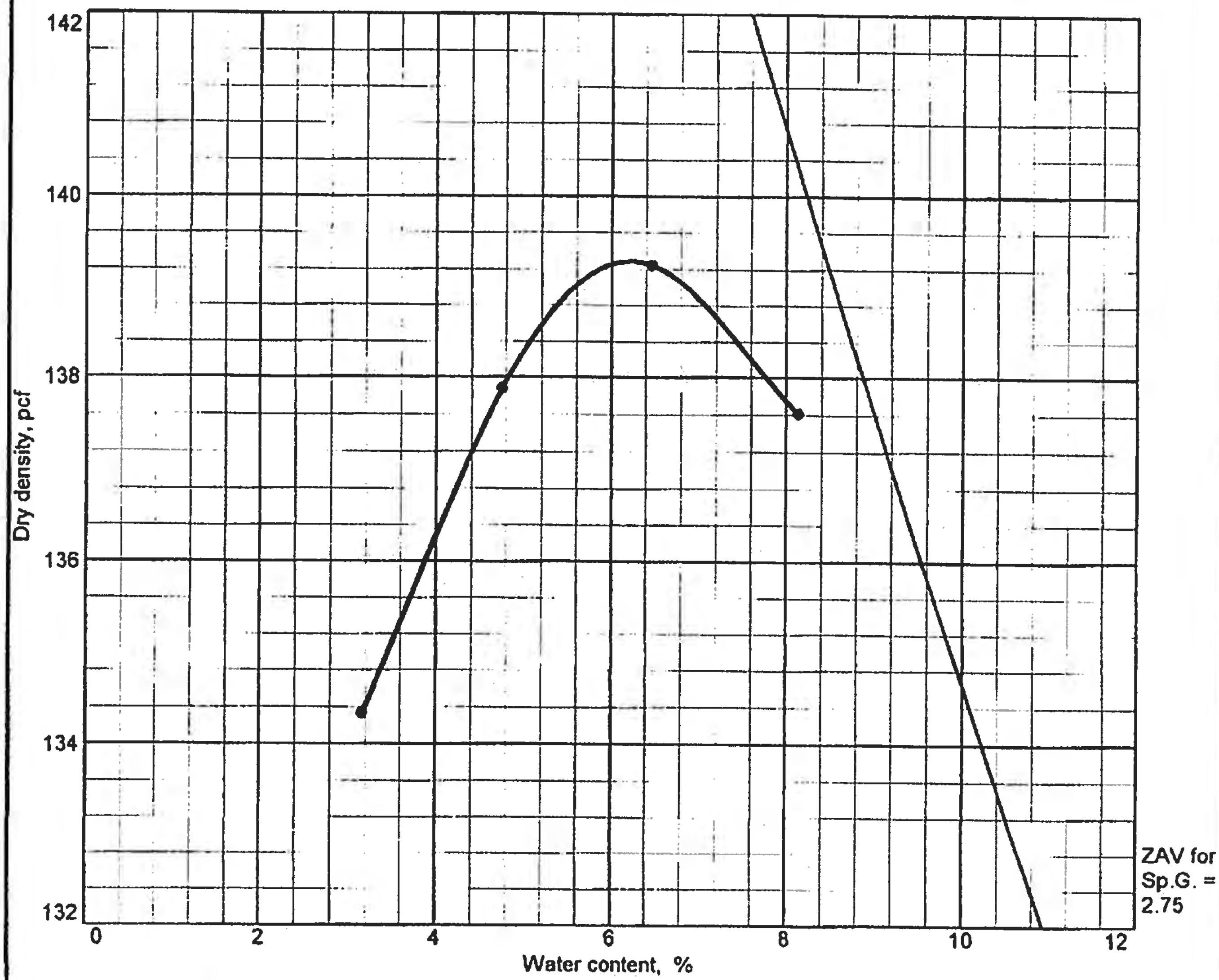
Attached, you will find a gradation test including the #80 sieve which show the percent passing to be <10%.

Sincerely,

Curt Resetarits

Curt Resetarits
Vice President, Sales

COMPACTION TEST REPORT - MANUAL RAMMER



Test specification: ASTM D 1557-12 Procedure C Modified
Oversize correction applied to each point

Elev/ Depth	Classification USCS	Classification AASHTO	Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
				2.65			15.2	4.9

ROCK CORRECTED TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 139.3 pcf Optimum moisture = 6.2 %	2" ROC STONE

Project No. BT-17-019 **Client:** NEW ENTERPRISE STONE & LIME INC.
Project: MATERIALS TESTING: NEW ENTERPRISE STONE & LIME

● **Location:** WEHRLE DRIVE PLANT

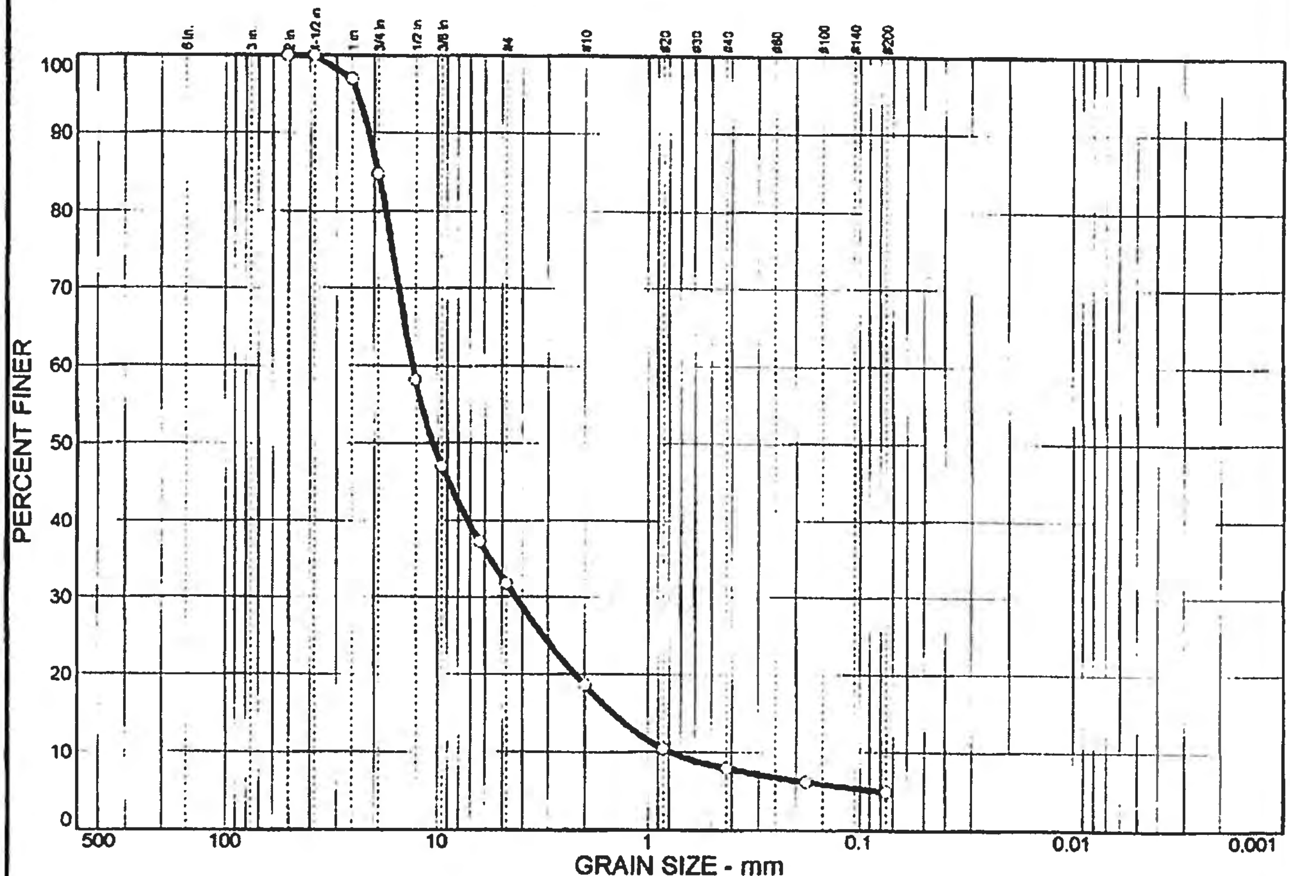
Remarks:
LTR-6
SAMPLE NUMBER: 19-220

COMPACTION TEST REPORT - MANUAL RAMMER

SJB SERVICES, INC.

Plate

Particle Size Distribution Report ASTM D-422 / ASTM D-1140



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	68.2	26.9	4.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2 in.	100.0		
1.5 in.	100.0		
1 in	97.0		
.75 in.	84.8		
.5 in.	58.2		
.375 in.	47.0		
.25 in.	37.3		
#4	31.8		
#10	18.5		
#20	10.4		
#40	7.9		
#80	6.2		
#200	4.9		

* (no specification provided)

Soil Description

2" ROC STONE

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 19.1 D_{60}= 13.1 D_{50}= 10.5
D_{30}= 4.29 D_{15}= 1.48 D_{10}= 0.791
C_u= 16.57 C_c= 1.77

Classification

USCS= AASHTO=

Remarks

LTR-6
SAMPLED BY: NESL
DATE RECEIVED: 3-12-2019

Sample No.: 19-220 **Source of Sample:** NEW ENTERPRISE STONE & LIME **Date:** 3-26-2019
Location: WEHRLE DRIVE PLANT **Elev./Depth:**

SJB SERVICES, INC.

Client: NEW ENTERPRISE STONE & LIME INC.
Project: MATERIALS TESTING: NEW ENTERPRISE STONE & LIME
Project No: BT-17-019 **Plate**

Western New York Office
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

Laboratory Test Report

PROJECT: **Material Testing: New Enterprise Stone & Lime**

CLIENT: **New Enterprise Stone & Lime**

DATE: **March 30, 2018** **PROJECT NO.: BT-17-019**
REPORT NO.: LTR-4

SAMPLE INFORMATION:
Sample No. 18-315 was collected by the Client, and received at SJB Services Inc. on March 29, 2018. Sample is described as Size #1 stone material from the New Enterprise Stone & Lime Wehrle Drive Plant 23. Material is for use at the Depew School Project. The results of this report relate only to the items inspected or tested. The report shall not be reproduced, expect in full, without the written approval of SJB Services, Inc.

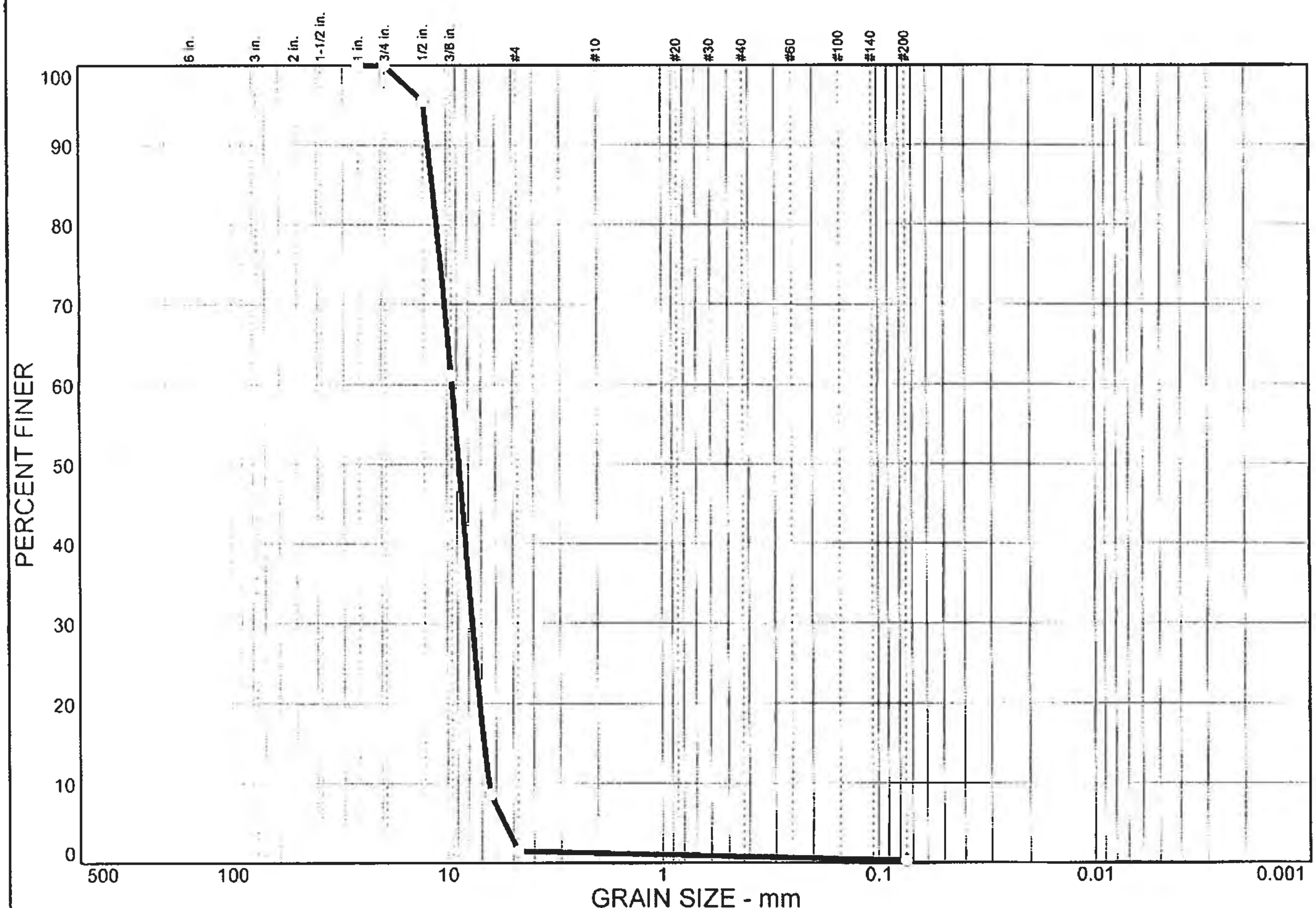
ASTM C-136: Sieve Analysis of Fine and Coarse Aggregates

Sieve Size	*Percent Passing*	**SPECIFICATION NYSDOT Table 703-4 Size #1**
1"'	100.0	100 %
¾"	100.0	
½"	95.5	90 – 100 %
3/8"	61.1	
¼"	8.6	0 – 15 %
#4	1.5	
#200	0.3	0 – 1 %

SJB Services, Inc.

Paul Gregorczyk
Laboratory Manager

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	98.5	1.2	0.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 in.	100.0		
.75 in.	100.0		
.5 in.	95.5		
.375 in.	61.1		
.25 in.	8.6		
#4	1.5		
#200	0.3		

* (no specification provided)

Soil Description

NYSDOT SIZE #1 STONE

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 11.6 D_{60}= 9.45 D_{50}= 8.82
D_{30}= 7.69 D_{15}= 6.82 D_{10}= 6.46
C_u= 1.46 C_c= 0.97

Classification

USCS= AASHTO=

Remarks

LTR-4
SAMPLED BY: NESL
DATE RECEIVED: 3-29-2018

Sample No.: 18-315 **Source of Sample:** NEW ENTERPRISE STONE & LIME **Date:** 3-30-2018
Location: PLANT 23 : WEHRLE DRIVE **Elev./Depth:**

SJB SERVICES, INC.

Client: NEW ENTERPRISE STONE & LIME INC.
Project: MATERIALS TESTING: NEW ENTERPRISE STONE & LIME
Project No: BT-17-019 **Plate**

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

New Enterprise Stone & Lime Inc.

Location where fill was obtained:

Wherle Drive Plant

Identification of any state or local approvals as a fill source:

DEC Facility ID No. 9-1499-00064, NYSDOT source 5-3R

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Compaction Test Report ASTM 1557-12 Procedure C Modified
Particle Size Distribution Report ASTM D-422 / ASTM D-1140

The information provided on this form is accurate and complete.

Signature: ______________________ Date: 06/05/2020

Print Name: Brandon Quinn

Firm: AFI Environmental

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

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DEC Facility ID No. 9-1499-00064, NYSDOT source 5-3R

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Compaction Test Report ASTM 1557-12 Procedure C Modified
Particle Size Distribution Report ASTM D-422 / ASTM D-1140

The information provided on this form is accurate and complete.

06/05/2020

Signature

Date

Brandon Quinn

Print Name

AFI Environmental

Firm

Brandon Quinn

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Monday, June 8, 2020 10:38 AM
To: Brandon Quinn; Walia, Jaspal (DEC)
Cc: stwsbillh@aol.com; afibillh@gmail.com; Meghan Chadsey; Gary Kriner; 'Michael Myers'; Joseph Petrella
Subject: Re: NYSDEC Facility #C915241 - Import of Fill

Brandon,

Jaspal and I have reviewed your request to import 2" Crusher Run Stone and #1 Stone at the Former American Linen Supply Company site (C915241) and find it acceptable for use.

Sincerely,

Megan Kuczka
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, NY 14203
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov

www.dec.ny.gov | | |

From: Brandon Quinn <Brandon.Quinn@afienvironmental.com>
Sent: Friday, June 5, 2020 4:16 PM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>; Walia, Jaspal (DEC) <jaspal.walia@dec.ny.gov>
Cc: stwsbillh@aol.com <stwsbillh@aol.com>; afibillh@gmail.com <afibillh@gmail.com>; Meghan Chadsey <meghan.chadsey@afienvironmental.com>; Gary Kriner <gkriner@taurcap.com>; 'Michael Myers' <Mmyers@larkindg.com>; Joseph Petrella <joep@larkindg.com>
Subject: NYSDEC Facility #C915241 - Import of Fill

Megan and Jaspal,

Please see the attached documents requesting the import of 2" Crusher Run Stone and #1 Stone for the parking lot and drainage repairs and upgrades at the Former American Linen Supply Company Site (#C915241) located at 822 Seneca Street in Buffalo NY. Please Let me know if you need any more information or have any questions.

Brandon Quinn
Geologist/Project Manager

AFI Environmental
PO Box 4049

Niagara Falls, NY 14304

Phone: 716-283-7645
Fax: 716-283-2858
Cell: 716-777-2729

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

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Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

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SECTION 4 – SOURCE OF FILL

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New Enterprise Stone & Lime Inc.

Location where fill was obtained:

Wherle Drive Plant

Identification of any state or local approvals as a fill source:

DEC Facility ID No. 9-1499-00064, NYSDOT source 5-3R

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Compaction Test Report ASTM 1557-12 Procedure C Modified
Particle Size Distribution Report ASTM D-422 / ASTM D-1140

The information provided on this form is accurate and complete.

06/05/2020

Signature | Date

Brandon Quinn

Print Name

AFI Environmental

Firm

Brandon Quinn

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Tuesday, July 7, 2020 9:22 AM
To: Brandon Quinn; Walia, Jaspal (DEC)
Subject: Re: Former American Linen Supply Company Facility (C915241) Request to Import Fill

Brandon,

I have reviewed and hereby accept your request to import 50-100 cubic yards of topsoil to the Former American Linen Supply Company Facility.

Sincerely,

Megan Kuczka
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, NY 14203
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov

www.dec.ny.gov | | |

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Monday, July 6, 2020 3:08 PM
To: brandon.quinn@afienvironmental.com <brandon.quinn@afienvironmental.com>; Walia, Jaspal (DEC) <jaspal.walia@dec.ny.gov>
Subject: Re: Former American Linen Supply Company Facility (C915241) Request to Import Fill

Brandon,

Thank you for submitting the Request to Import Form. I will review and reach out with any questions.

Sincerely,

Megan Kuczka
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, NY 14203
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov

www.dec.ny.gov | | |

Brandon Quinn

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Friday, February 26, 2021 8:45 AM
To: Brandon Quinn
Subject: Re: Former American Linen Supply Company Facility

Brandon -

The topsoil is acceptable for use at the Former American Linen Supply site. In the future, please make sure to submit the Import Request Form and Data prior to bringing any materials onsite.

I hope craziness calms down for you soon.

Sincerely,

Megan Kuczka
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, NY 14203
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov

www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Brandon Quinn <Brandon.Quinn@afienvironmental.com>
Sent: Monday, July 6, 2020 11:12 AM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>; Walia, Jaspal (DEC) <jaspal.walia@dec.ny.gov>
Subject: Former American Linen Supply Company Facility (C915241) Request to Import Fill

Megan and Jaspal,

Please see the attached documentation and Request to Import up to 100 Cubic Yards of topsoil at the Former American Linen Supply Company Facility (#C915241). The soil sample results do not show any exceedances of DER-10 Unrestricted Use allowable constituent levels for imported fill or soil. Please let me know if this soil is acceptable for import to the site. I attached the Laboratory Results as well as a comparison table.

Thank you,

Brandon Quinn
Geologist/Project Manager
AFI Project Number: I20B-Larkin Development AmeriPride Site

AFI Environmental
PO Box 4049
Niagara Falls, NY 14304

Phone: 716-283-7645
Fax: 716-283-2858
Cell: 716-777-2729

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

New Enterprise Stone & Lime Inc.

Location where fill was obtained:

Wherle Drive Plant

Identification of any state or local approvals as a fill source:

DEC Facility ID No. 9-1499-00064, NYSDOT source 5-3R

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Compaction Test Report ASTM 1557-12 Procedure C Modified
Particle Size Distribution Report ASTM D-422 / ASTM D-1140

The information provided on this form is accurate and complete.

06/05/2020

Signature Date

Brandon Quinn

Print Name

AFI Environmental

Firm

Brandon Quinn

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Friday, February 26, 2021 8:45 AM
To: Brandon Quinn
Subject: Re: Former American Linen Supply Company Facility

Brandon -

The topsoil is acceptable for use at the Former American Linen Supply site. In the future, please make sure to submit the Import Request Form and Data prior to bringing any materials onsite.

I hope craziness calms down for you soon.

Sincerely,

Megan Kuczka
Environmental Program Specialist 1, Division of Environmental Remediation

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NEW YORK STATE | Department of Environmental Conservation

Appendix D

Exported Fill Documentation: Waste Characterization Analytics, Contained-In determinations,
Waste Disposal Tickets

Waste Characterization Laboratory Reports

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 1 20200728		
Lab Sample ID:	203531-01	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		7/31/2020

Method Reference(s): EPA 1030

PARADIGM

ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier: Ameripride Trench 1 20200728

Lab Sample ID: 203531-01 **Date Sampled:** 7/28/2020

Matrix: Soil **Date Received:** 7/30/2020

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**8.09**	mg/Kg		8/3/2020 18:17
Barium	**99.2**	mg/Kg		8/3/2020 18:17
Cadmium	**3.74**	mg/Kg		8/3/2020 18:17
Chromium	**14.2**	mg/Kg		8/3/2020 18:17
Lead	**98.4**	mg/Kg		8/3/2020 18:17
Selenium	< 5.40	mg/Kg		8/4/2020 17:30
Silver	**0.567**	mg/Kg		8/4/2020 17:16

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 7/31/2020
Data File: 200803B

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 1 20200728		
Lab Sample ID:	203531-01	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0295	mg/Kg		7/31/2020 02:14
PCB-1221	< 0.0295	mg/Kg		7/31/2020 02:14
PCB-1232	< 0.0295	mg/Kg		7/31/2020 02:14
PCB-1242	< 0.0295	mg/Kg		7/31/2020 02:14
PCB-1248	< 0.0295	mg/Kg		7/31/2020 02:14
PCB-1254	< 0.0295	mg/Kg		7/31/2020 02:14
PCB-1260	< 0.0295	mg/Kg		7/31/2020 02:14
PCB-1262	< 0.0295	mg/Kg		7/31/2020 02:14
PCB-1268	< 0.0295	mg/Kg		7/31/2020 02:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**67.7**	17.8 - 74		7/31/2020 02:14

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 7/30/2020

Report Prepared Thursday, August 6, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 1 20200728		
Lab Sample ID:	203531-01	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 300	ug/Kg		7/31/2020 01:38
1,2,4,5-Tetrachlorobenzene	< 300	ug/Kg		7/31/2020 01:38
1,2,4-Trichlorobenzene	< 300	ug/Kg		7/31/2020 01:38
1,2-Dichlorobenzene	< 300	ug/Kg		7/31/2020 01:38
1,3-Dichlorobenzene	< 300	ug/Kg		7/31/2020 01:38
1,4-Dichlorobenzene	< 300	ug/Kg		7/31/2020 01:38
2,2-Oxybis (1-chloropropane)	< 300	ug/Kg		7/31/2020 01:38
2,3,4,6-Tetrachlorophenol	< 300	ug/Kg		7/31/2020 01:38
2,4,5-Trichlorophenol	< 300	ug/Kg		7/31/2020 01:38
2,4,6-Trichlorophenol	< 300	ug/Kg		7/31/2020 01:38
2,4-Dichlorophenol	< 300	ug/Kg		7/31/2020 01:38
2,4-Dimethylphenol	< 300	ug/Kg		7/31/2020 01:38
2,4-Dinitrophenol	< 1200	ug/Kg		7/31/2020 01:38
2,4-Dinitrotoluene	< 300	ug/Kg		7/31/2020 01:38
2,6-Dinitrotoluene	< 300	ug/Kg		7/31/2020 01:38
2-Chloronaphthalene	< 300	ug/Kg		7/31/2020 01:38
2-Chlorophenol	< 300	ug/Kg		7/31/2020 01:38
2-Methylnapthalene	**286**	ug/Kg	J	7/31/2020 01:38
2-Methylphenol	< 300	ug/Kg		7/31/2020 01:38
2-Nitroaniline	< 300	ug/Kg		7/31/2020 01:38
2-Nitrophenol	< 300	ug/Kg		7/31/2020 01:38
3&4-Methylphenol	< 300	ug/Kg		7/31/2020 01:38
3,3'-Dichlorobenzidine	< 300	ug/Kg		7/31/2020 01:38

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 1 20200728		
Lab Sample ID:	203531-01	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

3-Nitroaniline	< 300	ug/Kg		7/31/2020 01:38
4,6-Dinitro-2-methylphenol	< 599	ug/Kg		7/31/2020 01:38
4-Bromophenyl phenyl ether	< 300	ug/Kg		7/31/2020 01:38
4-Chloro-3-methylphenol	< 300	ug/Kg		7/31/2020 01:38
4-Chloroaniline	< 300	ug/Kg		7/31/2020 01:38
4-Chlorophenyl phenyl ether	< 300	ug/Kg		7/31/2020 01:38
4-Nitroaniline	< 300	ug/Kg		7/31/2020 01:38
4-Nitrophenol	< 300	ug/Kg		7/31/2020 01:38
Acenaphthene	**807**	ug/Kg		7/31/2020 01:38
Acenaphthylene	**202**	ug/Kg	J	7/31/2020 01:38
Acetophenone	< 300	ug/Kg		7/31/2020 01:38
Anthracene	**1770**	ug/Kg		7/31/2020 01:38
Atrazine	< 300	ug/Kg		7/31/2020 01:38
Benzaldehyde	< 300	ug/Kg		7/31/2020 01:38
Benzo (a) anthracene	**3110**	ug/Kg		7/31/2020 01:38
Benzo (a) pyrene	**2630**	ug/Kg		7/31/2020 01:38
Benzo (b) fluoranthene	**2570**	ug/Kg		7/31/2020 01:38
Benzo (g,h,i) perylene	**1380**	ug/Kg		7/31/2020 01:38
Benzo (k) fluoranthene	**1950**	ug/Kg		7/31/2020 01:38
Bis (2-chloroethoxy) methane	< 300	ug/Kg		7/31/2020 01:38
Bis (2-chloroethyl) ether	< 300	ug/Kg		7/31/2020 01:38
Bis (2-ethylhexyl) phthalate	< 300	ug/Kg		7/31/2020 01:38
Butylbenzylphthalate	< 300	ug/Kg		7/31/2020 01:38
Caprolactam	< 300	ug/Kg		7/31/2020 01:38
Carbazole	**800**	ug/Kg		7/31/2020 01:38

Report Prepared Thursday, August 6, 2020

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 1 20200728		
Lab Sample ID:	203531-01	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Chrysene	**2850**	ug/Kg	7/31/2020 01:38
Dibenz (a,h) anthracene	**565**	ug/Kg	7/31/2020 01:38
Dibenzofuran	**735**	ug/Kg	7/31/2020 01:38
Diethyl phthalate	< 300	ug/Kg	7/31/2020 01:38
Dimethyl phthalate	< 300	ug/Kg	7/31/2020 01:38
Di-n-butyl phthalate	< 300	ug/Kg	7/31/2020 01:38
Di-n-octylphthalate	< 300	ug/Kg	7/31/2020 01:38
Fluoranthene	**6780**	ug/Kg	7/31/2020 01:38
Fluorene	**1080**	ug/Kg	7/31/2020 01:38
Hexachlorobenzene	< 300	ug/Kg	7/31/2020 01:38
Hexachlorobutadiene	< 300	ug/Kg	7/31/2020 01:38
Hexachlorocyclopentadiene	< 1200	ug/Kg	7/31/2020 01:38
Hexachloroethane	< 300	ug/Kg	7/31/2020 01:38
Indeno (1,2,3-cd) pyrene	**1360**	ug/Kg	7/31/2020 01:38
Isophorone	< 300	ug/Kg	7/31/2020 01:38
Naphthalene	**409**	ug/Kg	7/31/2020 01:38
Nitrobenzene	< 300	ug/Kg	7/31/2020 01:38
N-Nitroso-di-n-propylamine	< 300	ug/Kg	7/31/2020 01:38
N-Nitrosodiphenylamine	< 300	ug/Kg	7/31/2020 01:38
Pentachlorophenol	< 599	ug/Kg	7/31/2020 01:38
Phenanthrene	**6120**	ug/Kg	7/31/2020 01:38
Phenol	< 300	ug/Kg	7/31/2020 01:38
Pyrene	**5520**	ug/Kg	7/31/2020 01:38

Report Prepared Thursday, August 6, 2020

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 1 20200728		
Lab Sample ID:	203531-01	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**63.6**	37.8 - 85.8		7/31/2020	01:38
2-Fluorobiphenyl	**61.6**	40.4 - 80.4		7/31/2020	01:38
2-Fluorophenol	**58.9**	38.8 - 77.4		7/31/2020	01:38
Nitrobenzene-d5	**58.1**	37.4 - 75.9		7/31/2020	01:38
Phenol-d5	**62.9**	40.4 - 78		7/31/2020	01:38
Terphenyl-d14	**66.1**	40.2 - 90		7/31/2020	01:38

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 7/30/2020
Data File: B48268.D

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 1 20200728		
Lab Sample ID:	203531-01	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.09	ug/Kg		8/3/2020 20:55
1,1,2,2-Tetrachloroethane	< 4.09	ug/Kg		8/3/2020 20:55
1,1,2-Trichloroethane	< 4.09	ug/Kg		8/3/2020 20:55
1,1-Dichloroethane	< 4.09	ug/Kg		8/3/2020 20:55
1,1-Dichloroethene	< 4.09	ug/Kg		8/3/2020 20:55
1,2,3-Trichlorobenzene	< 10.2	ug/Kg		8/3/2020 20:55
1,2,4-Trichlorobenzene	< 10.2	ug/Kg		8/3/2020 20:55
1,2-Dibromo-3-Chloropropane	< 20.4	ug/Kg		8/3/2020 20:55
1,2-Dibromoethane	< 4.09	ug/Kg		8/3/2020 20:55
1,2-Dichlorobenzene	< 4.09	ug/Kg		8/3/2020 20:55
1,2-Dichloroethane	< 4.09	ug/Kg		8/3/2020 20:55
1,2-Dichloropropane	< 4.09	ug/Kg		8/3/2020 20:55
1,3-Dichlorobenzene	< 4.09	ug/Kg		8/3/2020 20:55
1,4-Dichlorobenzene	< 4.09	ug/Kg		8/3/2020 20:55
1,4-Dioxane	< 40.9	ug/Kg		8/3/2020 20:55
2-Butanone	< 20.4	ug/Kg		8/3/2020 20:55
2-Hexanone	< 10.2	ug/Kg		8/3/2020 20:55
4-Methyl-2-pentanone	< 10.2	ug/Kg		8/3/2020 20:55
Acetone	< 20.4	ug/Kg		8/3/2020 20:55
Benzene	< 4.09	ug/Kg		8/3/2020 20:55
Bromochloromethane	< 10.2	ug/Kg		8/3/2020 20:55
Bromodichloromethane	< 4.09	ug/Kg		8/3/2020 20:55
Bromoform	< 10.2	ug/Kg		8/3/2020 20:55

PARADIGM ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 1 20200728		
Lab Sample ID:	203531-01	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Bromomethane	< 4.09	ug/Kg	8/3/2020 20:55
Carbon disulfide	< 4.09	ug/Kg	8/3/2020 20:55
Carbon Tetrachloride	< 4.09	ug/Kg	8/3/2020 20:55
Chlorobenzene	< 4.09	ug/Kg	8/3/2020 20:55
Chloroethane	< 4.09	ug/Kg	8/3/2020 20:55
Chloroform	< 4.09	ug/Kg	8/3/2020 20:55
Chloromethane	< 4.09	ug/Kg	8/3/2020 20:55
cis-1,2-Dichloroethene	< 4.09	ug/Kg	8/3/2020 20:55
cis-1,3-Dichloropropene	< 4.09	ug/Kg	8/3/2020 20:55
Cyclohexane	< 20.4	ug/Kg	8/3/2020 20:55
Dibromochloromethane	< 4.09	ug/Kg	8/3/2020 20:55
Dichlorodifluoromethane	< 4.09	ug/Kg	8/3/2020 20:55
Ethylbenzene	< 4.09	ug/Kg	8/3/2020 20:55
Freon 113	< 4.09	ug/Kg	8/3/2020 20:55
Isopropylbenzene	< 4.09	ug/Kg	8/3/2020 20:55
m,p-Xylene	< 4.09	ug/Kg	8/3/2020 20:55
Methyl acetate	< 4.09	ug/Kg	8/3/2020 20:55
Methyl tert-butyl Ether	< 4.09	ug/Kg	8/3/2020 20:55
Methylcyclohexane	< 4.09	ug/Kg	8/3/2020 20:55
Methylene chloride	< 10.2	ug/Kg	8/3/2020 20:55
o-Xylene	< 4.09	ug/Kg	8/3/2020 20:55
Styrene	< 10.2	ug/Kg	8/3/2020 20:55
Tetrachloroethene	< 4.09	ug/Kg	8/3/2020 20:55
Toluene	< 4.09	ug/Kg	8/3/2020 20:55
trans-1,2-Dichloroethene	< 4.09	ug/Kg	8/3/2020 20:55

Report Prepared Thursday, August 6, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier: Ameripride Trench 1 20200728

Lab Sample ID: 203531-01 **Date Sampled:** 7/28/2020

Matrix: Soil **Date Received:** 7/30/2020

trans-1,3-Dichloropropene	< 4.09	ug/Kg	8/3/2020 20:55
Trichloroethene	< 4.09	ug/Kg	8/3/2020 20:55
Trichlorofluoromethane	< 4.09	ug/Kg	8/3/2020 20:55
Vinyl chloride	< 4.09	ug/Kg	8/3/2020 20:55

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**102**	75 - 134		8/3/2020 20:55
4-Bromofluorobenzene	**65.0**	59.5 - 129		8/3/2020 20:55
Pentafluorobenzene	**98.9**	88.8 - 118		8/3/2020 20:55
Toluene-D8	**83.7**	84 - 114	*	8/3/2020 20:55

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x72233.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.

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 1 20200728		
Lab Sample ID:	203531-01	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**87.4**	%		8/3/2020

Method Reference(s): Par%M

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

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.

Report Prepared Thursday, August 6, 2020

PARADIGM

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier: Ameripride Trench 1 20200728
Lab Sample ID: 203531-01A **Date Sampled:** 7/28/2020
Matrix: TCLP Extract **Date Received:** 7/30/2020

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		8/3/2020 16:39
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		8/3/2020 16:39
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		8/3/2020 16:39
2,4-Dinitrotoluene	< 40.0	ug/L	130		8/3/2020 16:39
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		8/3/2020 16:39
Hexachlorobenzene	< 40.0	ug/L	130		8/3/2020 16:39
Hexachlorobutadiene	< 40.0	ug/L	500		8/3/2020 16:39
Hexachloroethane	< 40.0	ug/L	3000		8/3/2020 16:39
Nitrobenzene	< 40.0	ug/L	2000		8/3/2020 16:39
Pentachlorophenol	< 80.0	ug/L	100000		8/3/2020 16:39
Pyridine	< 40.0	ug/L	5000		8/3/2020 16:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**95.5**	53.8 - 116		8/3/2020 16:39
2-Fluorobiphenyl	**81.8**	36.5 - 95.3		8/3/2020 16:39
2-Fluorophenol	**72.9**	11.1 - 99.3		8/3/2020 16:39
Nitrobenzene-d5	**82.1**	49.4 - 100		8/3/2020 16:39
Phenol-d5	**73.3**	10 - 103		8/3/2020 16:39
Terphenyl-d14	**89.8**	54.3 - 109		8/3/2020 16:39

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 8/3/2020
Data File: B48334.D

Report Prepared Thursday, August 6, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier: Ameripride Trench 1 20200728
Lab Sample ID: 203531-01A **Date Sampled:** 7/28/2020
Matrix: TCLP Extract **Date Received:** 7/30/2020

TCLP Pesticides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Chlordane	< 2.00	ug/L	30		7/31/2020 17:56
Endrin	< 1.00	ug/L	20		7/31/2020 17:56
gamma-BHC (Lindane)	< 1.00	ug/L	400		7/31/2020 17:56
Heptachlor	< 1.00	ug/L	8		7/31/2020 17:56
Heptachlor Epoxide	< 2.00	ug/L	8		7/31/2020 17:56
Methoxychlor	< 1.00	ug/L	10000		7/31/2020 17:56
Toxaphene	< 20.0	ug/L	500		7/31/2020 17:56

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**74.7**	19.3 - 157		7/31/2020 17:56
Tetrachloro-m-xylene (1)	**66.2**	33.3 - 107		7/31/2020 17:56

Method Reference(s): EPA 8081B
EPA 1311 / 3510C
Preparation Date: 7/31/2020

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 1 20200728		
Lab Sample ID:	203531-01A	**Date Sampled:**	7/28/2020
Matrix:	TCLP Extract	**Date Received:**	7/30/2020

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		7/31/2020 13:44
Barium	**0.777**	mg/L	100		7/31/2020 13:44
Cadmium	< 0.0250	mg/L	1		7/31/2020 13:44
Chromium	< 0.500	mg/L	5		7/31/2020 13:44
Lead	< 0.500	mg/L	5		7/31/2020 13:44
Selenium	< 0.200	mg/L	1		7/31/2020 13:44
Silver	< 0.500	mg/L	5		7/31/2020 13:44

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 7/31/2020
Data File: 200731C

Report Prepared Thursday, August 6, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 1 20200728		
Lab Sample ID:	203531-01A	**Date Sampled:**	7/28/2020
Matrix:	TCLP Extract	**Date Received:**	7/30/2020

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		8/4/2020 14:25
1,2-Dichloroethane	< 20.0	ug/L	500		8/4/2020 14:25
2-Butanone	< 100	ug/L	200000		8/4/2020 14:25
Benzene	< 20.0	ug/L	500		8/4/2020 14:25
Carbon Tetrachloride	< 20.0	ug/L	500		8/4/2020 14:25
Chlorobenzene	< 20.0	ug/L	100000		8/4/2020 14:25
Chloroform	< 20.0	ug/L	6000		8/4/2020 14:25
Tetrachloroethene	< 20.0	ug/L	700		8/4/2020 14:25
Trichloroethene	< 20.0	ug/L	500		8/4/2020 14:25
Vinyl chloride	< 20.0	ug/L	200		8/4/2020 14:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**99.8**	70.9 - 139		8/4/2020 14:25
4-Bromofluorobenzene	**69.0**	59.5 - 129		8/4/2020 14:25
Pentafluorobenzene	**101**	89.3 - 117		8/4/2020 14:25
Toluene-D8	**86.9**	82.9 - 115		8/4/2020 14:25

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: x72246.D

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.

Report Prepared Thursday, August 6, 2020

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		7/31/2020

Method Reference(s): EPA 1030

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.

Report Prepared Thursday, August 6, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**7.24**	mg/Kg		8/3/2020 18:21
Barium	**80.2**	mg/Kg		8/3/2020 18:21
Cadmium	**1.82**	mg/Kg		8/3/2020 18:21
Chromium	**16.7**	mg/Kg		8/3/2020 18:21
Lead	**142**	mg/Kg		8/3/2020 18:21
Selenium	< 11.4	mg/Kg		8/4/2020 17:35
Silver	**0.288**	mg/Kg	J	8/3/2020 18:21

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 7/31/2020
Data File: 200803B

Report Prepared Thursday, August 6, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0315	mg/Kg		7/31/2020 02:38
PCB-1221	< 0.0315	mg/Kg		7/31/2020 02:38
PCB-1232	< 0.0315	mg/Kg		7/31/2020 02:38
PCB-1242	< 0.0315	mg/Kg		7/31/2020 02:38
PCB-1248	< 0.0315	mg/Kg		7/31/2020 02:38
PCB-1254	**0.0503**	mg/Kg		7/31/2020 02:38
PCB-1260	< 0.0315	mg/Kg		7/31/2020 02:38
PCB-1262	< 0.0315	mg/Kg		7/31/2020 02:38
PCB-1268	< 0.0315	mg/Kg		7/31/2020 02:38

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**48.0**	17.8 - 74		7/31/2020 02:38

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 7/30/2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 603	ug/Kg		7/31/2020 18:34
1,2,4,5-Tetrachlorobenzene	< 603	ug/Kg		7/31/2020 18:34
1,2,4-Trichlorobenzene	< 603	ug/Kg		7/31/2020 18:34
1,2-Dichlorobenzene	< 603	ug/Kg		7/31/2020 18:34
1,3-Dichlorobenzene	< 603	ug/Kg		7/31/2020 18:34
1,4-Dichlorobenzene	< 603	ug/Kg		7/31/2020 18:34
2,2-Oxybis (1-chloropropane)	< 603	ug/Kg		7/31/2020 18:34
2,3,4,6-Tetrachlorophenol	< 603	ug/Kg		7/31/2020 18:34
2,4,5-Trichlorophenol	< 603	ug/Kg		7/31/2020 18:34
2,4,6-Trichlorophenol	< 603	ug/Kg		7/31/2020 18:34
2,4-Dichlorophenol	< 603	ug/Kg		7/31/2020 18:34
2,4-Dimethylphenol	< 603	ug/Kg		7/31/2020 18:34
2,4-Dinitrophenol	< 2410	ug/Kg		7/31/2020 18:34
2,4-Dinitrotoluene	< 603	ug/Kg		7/31/2020 18:34
2,6-Dinitrotoluene	< 603	ug/Kg		7/31/2020 18:34
2-Chloronaphthalene	< 603	ug/Kg		7/31/2020 18:34
2-Chlorophenol	< 603	ug/Kg		7/31/2020 18:34
2-Methylnapthalene	< 603	ug/Kg		7/31/2020 18:34
2-Methylphenol	< 603	ug/Kg		7/31/2020 18:34
2-Nitroaniline	< 603	ug/Kg		7/31/2020 18:34
2-Nitrophenol	< 603	ug/Kg		7/31/2020 18:34
3&4-Methylphenol	< 603	ug/Kg		7/31/2020 18:34
3,3'-Dichlorobenzidine	< 603	ug/Kg		7/31/2020 18:34

PARADIGM

ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier: Ameripride Trench 2 20200728

Lab Sample ID: 203531-02 **Date Sampled:** 7/28/2020

Matrix: Soil **Date Received:** 7/30/2020

3-Nitroaniline	< 603	ug/Kg	7/31/2020 18:34
4,6-Dinitro-2-methylphenol	< 1210	ug/Kg	7/31/2020 18:34
4-Bromophenyl phenyl ether	< 603	ug/Kg	7/31/2020 18:34
4-Chloro-3-methylphenol	< 603	ug/Kg	7/31/2020 18:34
4-Chloroaniline	< 603	ug/Kg	7/31/2020 18:34
4-Chlorophenyl phenyl ether	< 603	ug/Kg	7/31/2020 18:34
4-Nitroaniline	< 603	ug/Kg	7/31/2020 18:34
4-Nitrophenol	< 603	ug/Kg	7/31/2020 18:34
Acenaphthene	**831**	ug/Kg	7/31/2020 18:34
Acenaphthylene	< 603	ug/Kg	7/31/2020 18:34
Acetophenone	< 603	ug/Kg	7/31/2020 18:34
Anthracene	**1810**	ug/Kg	7/31/2020 18:34
Atrazine	< 603	ug/Kg	7/31/2020 18:34
Benzaldehyde	< 603	ug/Kg	7/31/2020 18:34
Benzo (a) anthracene	**3750**	ug/Kg	7/31/2020 18:34
Benzo (a) pyrene	**3420**	ug/Kg	7/31/2020 18:34
Benzo (b) fluoranthene	**3410**	ug/Kg	7/31/2020 18:34
Benzo (g,h,i) perylene	**1910**	ug/Kg	7/31/2020 18:34
Benzo (k) fluoranthene	**2470**	ug/Kg	7/31/2020 18:34
Bis (2-chloroethoxy) methane	< 603	ug/Kg	7/31/2020 18:34
Bis (2-chloroethyl) ether	< 603	ug/Kg	7/31/2020 18:34
Bis (2-ethylhexyl) phthalate	< 603	ug/Kg	7/31/2020 18:34
Butylbenzylphthalate	< 603	ug/Kg	7/31/2020 18:34
Caprolactam	< 603	ug/Kg	7/31/2020 18:34
Carbazole	**893**	ug/Kg	7/31/2020 18:34

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Chrysene	**3520**	ug/Kg		7/31/2020 18:34
Dibenz (a,h) anthracene	**737**	ug/Kg		7/31/2020 18:34
Dibenzofuran	**751**	ug/Kg		7/31/2020 18:34
Diethyl phthalate	< 603	ug/Kg		7/31/2020 18:34
Dimethyl phthalate	< 603	ug/Kg		7/31/2020 18:34
Di-n-butyl phthalate	< 603	ug/Kg		7/31/2020 18:34
Di-n-octylphthalate	< 603	ug/Kg		7/31/2020 18:34
Fluoranthene	**8490**	ug/Kg		7/31/2020 18:34
Fluorene	**1080**	ug/Kg		7/31/2020 18:34
Hexachlorobenzene	< 603	ug/Kg		7/31/2020 18:34
Hexachlorobutadiene	< 603	ug/Kg		7/31/2020 18:34
Hexachlorocyclopentadiene	< 2410	ug/Kg		7/31/2020 18:34
Hexachloroethane	< 603	ug/Kg		7/31/2020 18:34
Indeno (1,2,3-cd) pyrene	**1840**	ug/Kg		7/31/2020 18:34
Isophorone	< 603	ug/Kg		7/31/2020 18:34
Naphthalene	**314**	ug/Kg	J	7/31/2020 18:34
Nitrobenzene	< 603	ug/Kg		7/31/2020 18:34
N-Nitroso-di-n-propylamine	< 603	ug/Kg		7/31/2020 18:34
N-Nitrosodiphenylamine	< 603	ug/Kg		7/31/2020 18:34
Pentachlorophenol	< 1210	ug/Kg		7/31/2020 18:34
Phenanthrene	**6140**	ug/Kg		7/31/2020 18:34
Phenol	< 603	ug/Kg		7/31/2020 18:34
Pyrene	**6650**	ug/Kg		7/31/2020 18:34

Report Prepared Thursday, August 6, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**43.3**	37.8 - 85.8		7/31/2020	18:34
2-Fluorobiphenyl	**42.5**	40.4 - 80.4		7/31/2020	18:34
2-Fluorophenol	**40.4**	38.8 - 77.4		7/31/2020	18:34
Nitrobenzene-d5	**36.7**	37.4 - 75.9	*	7/31/2020	18:34
Phenol-d5	**44.5**	40.4 - 78		7/31/2020	18:34
Terphenyl-d14	**44.3**	40.2 - 90		7/31/2020	18:34

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 7/30/2020
Data File: B48284.D

Report Prepared Thursday, August 6, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.06	ug/Kg		8/3/2020 21:17
1,1,2,2-Tetrachloroethane	< 4.06	ug/Kg		8/3/2020 21:17
1,1,2-Trichloroethane	< 4.06	ug/Kg		8/3/2020 21:17
1,1-Dichloroethane	< 4.06	ug/Kg		8/3/2020 21:17
1,1-Dichloroethene	< 4.06	ug/Kg		8/3/2020 21:17
1,2,3-Trichlorobenzene	< 10.1	ug/Kg		8/3/2020 21:17
1,2,4-Trichlorobenzene	< 10.1	ug/Kg		8/3/2020 21:17
1,2-Dibromo-3-Chloropropane	< 20.3	ug/Kg		8/3/2020 21:17
1,2-Dibromoethane	< 4.06	ug/Kg		8/3/2020 21:17
1,2-Dichlorobenzene	< 4.06	ug/Kg		8/3/2020 21:17
1,2-Dichloroethane	< 4.06	ug/Kg		8/3/2020 21:17
1,2-Dichloropropane	< 4.06	ug/Kg		8/3/2020 21:17
1,3-Dichlorobenzene	< 4.06	ug/Kg		8/3/2020 21:17
1,4-Dichlorobenzene	< 4.06	ug/Kg		8/3/2020 21:17
1,4-Dioxane	< 40.6	ug/Kg		8/3/2020 21:17
2-Butanone	< 20.3	ug/Kg		8/3/2020 21:17
2-Hexanone	< 10.1	ug/Kg		8/3/2020 21:17
4-Methyl-2-pentanone	< 10.1	ug/Kg		8/3/2020 21:17
Acetone	< 20.3	ug/Kg		8/3/2020 21:17
Benzene	< 4.06	ug/Kg		8/3/2020 21:17
Bromochloromethane	< 10.1	ug/Kg		8/3/2020 21:17
Bromodichloromethane	< 4.06	ug/Kg		8/3/2020 21:17
Bromoform	< 10.1	ug/Kg		8/3/2020 21:17

Report Prepared Thursday, August 6, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier: Ameripride Trench 2 20200728

Lab Sample ID: 203531-02 **Date Sampled:** 7/28/2020

Matrix: Soil **Date Received:** 7/30/2020

Bromomethane	< 4.06	ug/Kg	8/3/2020 21:17
Carbon disulfide	< 4.06	ug/Kg	8/3/2020 21:17
Carbon Tetrachloride	< 4.06	ug/Kg	8/3/2020 21:17
Chlorobenzene	< 4.06	ug/Kg	8/3/2020 21:17
Chloroethane	< 4.06	ug/Kg	8/3/2020 21:17
Chloroform	< 4.06	ug/Kg	8/3/2020 21:17
Chloromethane	< 4.06	ug/Kg	8/3/2020 21:17
cis-1,2-Dichloroethene	< 4.06	ug/Kg	8/3/2020 21:17
cis-1,3-Dichloropropene	< 4.06	ug/Kg	8/3/2020 21:17
Cyclohexane	< 20.3	ug/Kg	8/3/2020 21:17
Dibromochloromethane	< 4.06	ug/Kg	8/3/2020 21:17
Dichlorodifluoromethane	< 4.06	ug/Kg	8/3/2020 21:17
Ethylbenzene	< 4.06	ug/Kg	8/3/2020 21:17
Freon 113	< 4.06	ug/Kg	8/3/2020 21:17
Isopropylbenzene	< 4.06	ug/Kg	8/3/2020 21:17
m,p-Xylene	< 4.06	ug/Kg	8/3/2020 21:17
Methyl acetate	< 4.06	ug/Kg	8/3/2020 21:17
Methyl tert-butyl Ether	< 4.06	ug/Kg	8/3/2020 21:17
Methylcyclohexane	< 4.06	ug/Kg	8/3/2020 21:17
Methylene chloride	< 10.1	ug/Kg	8/3/2020 21:17
o-Xylene	< 4.06	ug/Kg	8/3/2020 21:17
Styrene	< 10.1	ug/Kg	8/3/2020 21:17
Tetrachloroethene	< 4.06	ug/Kg	8/3/2020 21:17
Toluene	< 4.06	ug/Kg	8/3/2020 21:17
trans-1,2-Dichloroethene	< 4.06	ug/Kg	8/3/2020 21:17

Report Prepared Thursday, August 6, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

trans-1,3-Dichloropropene	< 4.06	ug/Kg	8/3/2020 21:17
Trichloroethene	< 4.06	ug/Kg	8/3/2020 21:17
Trichlorofluoromethane	< 4.06	ug/Kg	8/3/2020 21:17
Vinyl chloride	< 4.06	ug/Kg	8/3/2020 21:17

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**105**	75 - 134		8/3/2020 21:17
4-Bromofluorobenzene	**63.4**	59.5 - 129		8/3/2020 21:17
Pentafluorobenzene	**99.5**	88.8 - 118		8/3/2020 21:17
Toluene-D8	**83.8**	84 - 114	*	8/3/2020 21:17

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x72234.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.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02	**Date Sampled:**	7/28/2020
Matrix:	Soil	**Date Received:**	7/30/2020

Percent Solids

Analyte	Result	Units	Qualifier	Date Analyzed
Percent Solids	**87.7**	%		8/3/2020

Method Reference(s): Par%M

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

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02A	**Date Sampled:**	7/28/2020
Matrix:	TCLP Extract	**Date Received:**	7/30/2020

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		8/3/2020 17:08
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		8/3/2020 17:08
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		8/3/2020 17:08
2,4-Dinitrotoluene	< 40.0	ug/L	130		8/3/2020 17:08
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		8/3/2020 17:08
Hexachlorobenzene	< 40.0	ug/L	130		8/3/2020 17:08
Hexachlorobutadiene	< 40.0	ug/L	500		8/3/2020 17:08
Hexachloroethane	< 40.0	ug/L	3000		8/3/2020 17:08
Nitrobenzene	< 40.0	ug/L	2000		8/3/2020 17:08
Pentachlorophenol	< 80.0	ug/L	100000		8/3/2020 17:08
Pyridine	< 40.0	ug/L	5000		8/3/2020 17:08

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**88.2**	53.8 - 116		8/3/2020 17:08
2-Fluorobiphenyl	**78.8**	36.5 - 95.3		8/3/2020 17:08
2-Fluorophenol	**71.3**	11.1 - 99.3		8/3/2020 17:08
Nitrobenzene-d5	**80.1**	49.4 - 100		8/3/2020 17:08
Phenol-d5	**71.3**	10 - 103		8/3/2020 17:08
Terphenyl-d14	**82.0**	54.3 - 109		8/3/2020 17:08

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 8/3/2020
Data File: B48335.D

Report Prepared Thursday, August 6, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02A	**Date Sampled:**	7/28/2020
Matrix:	TCLP Extract	**Date Received:**	7/30/2020

TCLP Pesticides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Chlordane	< 2.00	ug/L	30		7/31/2020 18:15
Endrin	< 1.00	ug/L	20		7/31/2020 18:15
gamma-BHC (Lindane)	< 1.00	ug/L	400		7/31/2020 18:15
Heptachlor	< 1.00	ug/L	8		7/31/2020 18:15
Heptachlor Epoxide	< 2.00	ug/L	8		7/31/2020 18:15
Methoxychlor	< 1.00	ug/L	10000		7/31/2020 18:15
Toxaphene	< 20.0	ug/L	500		7/31/2020 18:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**80.1**	19.3 - 157		7/31/2020 18:15
Tetrachloro-m-xylene (1)	**66.2**	33.3 - 107		7/31/2020 18:15

Method Reference(s): EPA 8081B
EPA 1311 / 3510C
Preparation Date: 7/31/2020

Report Prepared Thursday, August 6, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02A	**Date Sampled:**	7/28/2020
Matrix:	TCLP Extract	**Date Received:**	7/30/2020

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		7/31/2020 13:48
Barium	**1.26**	mg/L	100		7/31/2020 13:48
Cadmium	< 0.0250	mg/L	1		7/31/2020 13:48
Chromium	< 0.500	mg/L	5		7/31/2020 13:48
Lead	< 0.500	mg/L	5		7/31/2020 13:48
Selenium	< 0.200	mg/L	1		7/31/2020 13:48
Silver	< 0.500	mg/L	5		7/31/2020 13:48

Method Reference(s):	EPA 6010C
	EPA 1311 / 3005A
Preparation Date:	7/31/2020
Data File:	200731C

Report Prepared Thursday, August 6, 2020

Lab Project ID: 203531

Client: **AFI Environmental**

Project Reference: I20B-Larkin Development Ameripride Site

Sample Identifier:	Ameripride Trench 2 20200728		
Lab Sample ID:	203531-02A	**Date Sampled:**	7/28/2020
Matrix:	TCLP Extract	**Date Received:**	7/30/2020

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		8/4/2020 14:48
1,2-Dichloroethane	< 20.0	ug/L	500		8/4/2020 14:48
2-Butanone	< 100	ug/L	200000		8/4/2020 14:48
Benzene	< 20.0	ug/L	500		8/4/2020 14:48
Carbon Tetrachloride	< 20.0	ug/L	500		8/4/2020 14:48
Chlorobenzene	< 20.0	ug/L	100000		8/4/2020 14:48
Chloroform	< 20.0	ug/L	6000		8/4/2020 14:48
Tetrachloroethene	< 20.0	ug/L	700		8/4/2020 14:48
Trichloroethene	< 20.0	ug/L	500		8/4/2020 14:48
Vinyl chloride	< 20.0	ug/L	200		8/4/2020 14:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**108**	70.9 - 139		8/4/2020 14:48
4-Bromofluorobenzene	**68.2**	59.5 - 129		8/4/2020 14:48
Pentafluorobenzene	**101**	89.3 - 117		8/4/2020 14:48
Toluene-D8	**85.8**	82.9 - 115		8/4/2020 14:48

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: x72247.D

Report Prepared Thursday, August 6, 2020

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.

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 quotations 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 re-perform 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 the 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.

PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
CLIENT: AFI ENVIRONMENTAL	CLIENT: Same	LAB PROJECT ID: 203531
ADDRESS: 8644 BUFFALO	ADDRESS:	
CITY: NIAGARA FALLS STATE: NY ZIP: 14304	CITY: STATE: ZIP:	Quotation #:
PHONE: (716) 777-2729	PHONE:	Email: Brandon.quinn@afienvironmental.com
ATTN: BRANDON QUINN	ATTN:	

PROJECT REFERENCE
I20B-Larkin Development Ameripride Site

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCLP VOCs	TCLP SVOCs	TCLP Metals	TCL PCBs	reactive sulfide and cyanide	Ignitability	TCLP Herb/Pest	TCL VOCs	TCL SVOCs	RCRA 8 metals	TS - % Solids per EF 6P 7/30/2020	REMARKS	PARADIGM LAB SAMPLE NUMBER
7/28/20	12:00	X		Ameripride Trench 1 20200728	SO	3	X	X	X	X	X	X	X	X	X	X	X		01A
7/28/20	12:45	X		Ameripride Trench 2 20200728	SO	3	X	X	X	X	X	X	X	X	X	X	X	suspect soils	02A
																		A for TCLP extract mw 7/30/2020	

Turnaround Time	Report Supplements	
Availability contingent upon lab approval; additional fees may apply.		
Standard 5 day ☒	None Required ☐	None Required ☐
10 day ☐	Batch QC ☐	Basic EDD ☐
Rush 3 day ☐	Category A ☐	NYSDEC EDD ☒
Rush 2 day ☐	Category B ☒	
Rush 1 day ☐		
Other ☐ please indicate date needed:	Other ☐ please indicate package needed:	Other EDD ☐ please indicate EDD needed:

	Date/Time	
Sampled By: [signature]	7/29/20 15:00	Total Cost:
Relinquished By: [signature]	7/29/20 15:00	
Received By: [signature]	7/29/20 15:00	P.I.F.
Received @ Lab By: [signature]	7/30/2020 1008	

6°C iced 7/30/2020 08:22

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

Custody Seal N/A, samples delivered by Paradigm - 6P 7/30/2020

See additional page for sample conditions.

7/29 SUR TURN

PARADIGM

Chain of Custody Supplement

Client: AFI

Lab Project ID: 203531

Completed by: Molly Mail

Date: 7/30/2020

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

NELAC compliance with the sample condition requirements upon receipt

Condition	Yes	No	N/A
Container Type	X	5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	TCLP VOA		X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		met
Comments 6°c iced			
Compliant Sample Quantity/Type	X		
Comments No bottle certs client used their containers			

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

Adirondack Environmental Services, Inc

Date: *05-Aug-20*

CLIENT:	Paradigm Environmental	**Client Sample ID:**	203531-01
Work Order:	**200731027**	**Collection Date:**	7/28/2020
Reference:	I20B Larking Development / Ameripride Sit	**Lab Sample ID:**	200731027-001
PO#:		**Matrix:**	SOIL

Project# : 203531

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY - SW 7471B						Analyst: **AVB**
(Prep: SW7471B - 8/3/2020)						
Mercury	**1.07**	0.230	Z	µg/g-dry	1	8/3/2020 2:56:01 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**13.1**	0.1		wt%	1	8/4/2020
SW 7.3.3.2, NOT ELAP CERTIFIED						Analyst: **KB**
(Prep: E335.4 - 8/3/2020)						
Reactive Cyanide	**ND**	1.0		µg/g	1	8/4/2020 1:07:07 PM
SW 7.3.4.2, NOT ELAP CERTIFIED						Analyst: **NK**
(Prep: E335.4 - 8/3/2020)						
Reactive Sulfide	**ND**	10		µg/g	1	8/5/2020
REACTIVITY - SW 7.3.4.2, NOT ELAP CERTIFIED						Analyst: **NK**
Reactivity	**Non Reactive**	0			1	8/5/2020

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate
S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: *05-Aug-20*

CLIENT: Paradigm Environmental
Work Order: **200731027**
Reference: I20B Larking Development / Ameripride Sit
PO#:
Project# : 203531

Client Sample ID: 203531-01A
Collection Date: 7/28/2020
Lab Sample ID: 200731027-002
Matrix: TCLP-EXTRACT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP HERBICIDES - EPA 8321B						Analyst: **KF**
(Prep: SW3535A - 7/31/2020)						
2,4,5-TP (Silvex)-TCLP	**ND**	0.10		mg/L	1	7/31/2020 6:22:57 PM
2,4-D-TCLP	**ND**	0.10		mg/L	1	7/31/2020 6:22:57 PM
Surr: Acifluorfen	**67.6**	52.5-128		%REC	1	7/31/2020 6:22:57 PM
Surr: DCAA	**105**	56.2-139		%REC	1	7/31/2020 6:22:57 PM
TCLP MERCURY - SW1311/7470A						Analyst: **AVB**
(Prep: SW7470A - 8/3/2020)						
Mercury-TCLP	**ND**	0.002		mg/L	1	8/3/2020 2:28:54 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: *05-Aug-20*

CLIENT:	Paradigm Environmental	**Client Sample ID:**	203531-02
Work Order:	**200731027**	**Collection Date:**	7/28/2020
Reference:	I20B Larking Development / Ameripride Sit	**Lab Sample ID:**	200731027-003
PO#:		**Matrix:**	SOIL

Project# : 203531

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY - SW 7471B						Analyst: **AVB**
(Prep: SW7471B - 8/3/2020)						
Mercury	**0.556**	0.240		µg/g-dry	1	8/3/2020 3:04:29 PM
MOISTURE CONTENT-ASTM D2216 (NOT ELAP CERTIFIED)						Analyst: **TSZ**
Percent Moisture	**16.8**	0.1		wt%	1	8/4/2020
SW 7.3.3.2, NOT ELAP CERTIFIED						Analyst: **KB**
(Prep: E335.4 - 8/3/2020)						
Reactive Cyanide	**ND**	1.0		µg/g	1	8/4/2020 1:08:44 PM
SW 7.3.4.2, NOT ELAP CERTIFIED						Analyst: **NK**
(Prep: E335.4 - 8/3/2020)						
Reactive Sulfide	**ND**	10		µg/g	1	8/5/2020
REACTIVITY - SW 7.3.4.2, NOT ELAP CERTIFIED						Analyst: **NK**
Reactivity	**Non Reactive**	0			1	8/5/2020

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: *05-Aug-20*

CLIENT:	Paradigm Environmental	**Client Sample ID:**	203531-02A
Work Order:	**200731027**	**Collection Date:**	7/28/2020
Reference:	I20B Larking Development / Ameripride Sit	**Lab Sample ID:**	200731027-004
PO#:		**Matrix:**	TCLP-EXTRACT

Project# : 203531

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP HERBICIDES - EPA 8321B						Analyst: **KF**
(Prep: SW3535A - 7/31/2020)						
2,4,5-TP (Silvex)-TCLP	**ND**	0.10		mg/L	1	7/31/2020 6:44:30 PM
2,4-D-TCLP	**ND**	0.10		mg/L	1	7/31/2020 6:44:30 PM
Surr: Acifluorfen	**56.3**	52.5-128		%REC	1	7/31/2020 6:44:30 PM
Surr: DCAA	**80.0**	56.2-139		%REC	1	7/31/2020 6:44:30 PM
TCLP MERCURY - SW1311/7470A						Analyst: **AVB**
(Prep: SW7470A - 8/3/2020)						
Mercury-TCLP	**ND**	0.002		mg/L	1	8/3/2020 2:30:36 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate
S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

1of1

PARADIGM

200731027

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

CHAIN OF CUSTODY

ADIRONDACK: ELAP ID: 1(

REPORT TO:		INVOICE TO: NEC	
COMPANY:	Paradigm Environmental	COMPANY:	Same
ADDRESS:		ADDRESS:	
CITY: STATE: ZIP:		CITY: STATE: ZIP:	
PHONE: FAX:		PHONE: FAX:	
ATTN:	Reporting	ATTN:	Accounts Payable
COMMENTS:	Please email results to reporting@paradigmenv.com		

LAB PROJECT #:

CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)

☐ 1 ☐ 2 ☐ 3 ☒ 5 STD

Date Due: 8/7/2020 for report J Flags

ASP Cat B Package due 8/

SW846 limits

report as dry WT

PROJECT NAME/SITE NAME: I20B Larkin Development Ameripride Site

200731027

REQUESTED ANALYSIS

		DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	reactivity	Total Hg	TCLP Herb	HCLP Hg						REMARKS	PARADIGM SAMPLE NUMBER
001	1	7/28/2020	1200			Ameripride Trench1 20200728	soil	1	X	X								203531-01	
002	2	7/28/2020	1200			↓	TCLP extract	2			X	X						203531-01A	
003	3	7/28/2020	1245			Ameripride Trench2 20200728	soil	1	X	X								203531-02	
004	4	7/28/2020	1245			↓	TCLP extract	2			X	X						203531-02A	
	5																		
	6																		
	7																		
	8																		
	9																		
	10																		

****LAB USE ONLY BELOW THIS LINE****

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

Receipt Parameter		NELAC Compliance	
Container Type:		Y ☐	N ☐
Comments:			
Preservation:		Y ☐	N ☐
Comments:			
Holding Time:		Y ☐	N ☐
Comments:			
Temperature:	3°C	Y ☐	N ☐
Comments:			

Client

		Date/Time
Sampled By	MollyVail	7/31/2020 0830
Relinquished By		Date/Time
Received By		Date/Time
Received @ Lab By	Knoz	7/31/20 443pm

Total Cost:

P.I.F.

Adirondack
Environmental Services Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc**. are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.,** nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.**, its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

(g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.

ANALYTICAL REPORT

Lab Number:	L2047640
Client:	AFI Environmental 8644 Buffalo Avenue PO Box 4049 Niagara Falls, NY 14304
ATTN:	Brandon Quinn
Phone:	(716) 283-7645
Project Name:	T20B-LARKIN DEVELOPMENT AMERIP
Project Number:	T20B-LARKIN DEV.
Report Date:	11/09/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Project Number: T20B-LARKIN DEV.

Lab Number: L2047640
Report Date: 11/09/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2047640-01	PARKING LOT CIU 3 20201028	SOIL	822 SENECA ST. BUFFALO NY	10/28/20 16:30	10/30/20
L2047640-02	PARKING LOT CIU 4 20201028	SOIL	822 SENECA ST. BUFFALO NY	10/28/20 16:35	10/30/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2047640-01 and -02: The analysis of TCLP Volatiles was not received in the recommended container. The analysis was performed at the client's request.

L2047640-01 and -02: The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

TCLP Semivolatiles

L2047640-01: One or more of the internal standard recoveries is outside the acceptance criteria; however, the internal standard is within criteria for the target compounds; therefore, the results are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative

Date: 11/09/20

ORGANICS

VOLATILES

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-01	Date Collected:	10/28/20 16:30
Client ID:	PARKING LOT CIU 3 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/05/20 12:47
Analyst: MKS
Percent Solids: 84%
TCLP/SPLP Ext. Date: 11/04/20 13:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
dibromofluoromethane	103		70-130

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-01	Date Collected:	10/28/20 16:30
Client ID:	PARKING LOT CIU 3 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/04/20 09:23
Analyst: MKS
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	0.62		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-01	Date Collected:	10/28/20 16:30
Client ID:	PARKING LOT CIU 3 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.2	1.0	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	84	37.	1
Freon-113	ND		ug/kg	4.2	0.73	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-02	Date Collected:	10/28/20 16:35
Client ID:	PARKING LOT CIU 4 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/05/20 13:17
Analyst: MKS
Percent Solids: 86%
TCLP/SPLP Ext. Date: 11/04/20 13:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
dibromofluoromethane	98		70-130

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID: L2047640-02
Client ID: PARKING LOT CIU 4 20201028
Sample Location: 822 SENECA ST. BUFFALO NY

Date Collected: 10/28/20 16:35
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/04/20 09:49
Analyst: MKS
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.0	1.8	1
1,1-Dichloroethane	ND		ug/kg	0.81	0.12	1
Chloroform	ND		ug/kg	1.2	0.11	1
Carbon tetrachloride	ND		ug/kg	0.81	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.81	0.10	1
Dibromochloromethane	ND		ug/kg	0.81	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.81	0.22	1
Tetrachloroethene	0.76		ug/kg	0.40	0.16	1
Chlorobenzene	ND		ug/kg	0.40	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.2	0.56	1
1,2-Dichloroethane	ND		ug/kg	0.81	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.40	0.14	1
Bromodichloromethane	ND		ug/kg	0.40	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.81	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	0.40	0.13	1
Bromoform	ND		ug/kg	3.2	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.40	0.13	1
Benzene	ND		ug/kg	0.40	0.13	1
Toluene	ND		ug/kg	0.81	0.44	1
Ethylbenzene	ND		ug/kg	0.81	0.11	1
Chloromethane	ND		ug/kg	3.2	0.76	1
Bromomethane	ND		ug/kg	1.6	0.47	1
Vinyl chloride	ND		ug/kg	0.81	0.27	1
Chloroethane	ND		ug/kg	1.6	0.37	1
1,1-Dichloroethene	ND		ug/kg	0.81	0.19	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1
Trichloroethene	ND		ug/kg	0.40	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-02	Date Collected:	10/28/20 16:35
Client ID:	PARKING LOT CIU 4 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.45	1
o-Xylene	ND		ug/kg	0.81	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.81	0.14	1
Styrene	ND		ug/kg	0.81	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.1	0.74	1
Acetone	ND		ug/kg	8.1	3.9	1
Carbon disulfide	ND		ug/kg	8.1	3.7	1
2-Butanone	ND		ug/kg	8.1	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.1	1.0	1
2-Hexanone	ND		ug/kg	8.1	0.96	1
Bromochloromethane	ND		ug/kg	1.6	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.81	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	0.81	1
Isopropylbenzene	ND		ug/kg	0.81	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1
Methyl Acetate	ND		ug/kg	3.2	0.77	1
Cyclohexane	ND		ug/kg	8.1	0.44	1
1,4-Dioxane	ND		ug/kg	65	28.	1
Freon-113	ND		ug/kg	3.2	0.56	1
Methyl cyclohexane	ND		ug/kg	3.2	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	102		70-130

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/20 07:39
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1430441-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.58	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/20 07:39
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1430441-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	0.38	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	0.29	J	ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/20 07:39
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1430441-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/05/20 07:13
Analyst: MM
TCLP/SPLP Extraction Date: 11/04/20 13:22

Extraction Date: 11/04/20 13:22

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01-02 Batch: WG1430721-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1430441-3 WG1430441-4								
Methylene chloride	103		100		70-130	3		30
1,1-Dichloroethane	107		100		70-130	7		30
Chloroform	114		109		70-130	4		30
Carbon tetrachloride	117		110		70-130	6		30
1,2-Dichloropropane	105		101		70-130	4		30
Dibromochloromethane	94		95		70-130	1		30
1,1,2-Trichloroethane	91		90		70-130	1		30
Tetrachloroethene	106		98		70-130	8		30
Chlorobenzene	102		97		70-130	5		30
Trichlorofluoromethane	**149**	Q	133		70-139	11		30
1,2-Dichloroethane	109		108		70-130	1		30
1,1,1-Trichloroethane	113		105		70-130	7		30
Bromodichloromethane	101		100		70-130	1		30
trans-1,3-Dichloropropene	93		91		70-130	2		30
cis-1,3-Dichloropropene	108		104		70-130	4		30
Bromoform	84		85		70-130	1		30
1,1,2,2-Tetrachloroethane	85		86		70-130	1		30
Benzene	112		105		70-130	6		30
Toluene	99		93		70-130	6		30
Ethylbenzene	99		93		70-130	6		30
Chloromethane	88		77		52-130	13		30
Bromomethane	**213**	Q	**179**	Q	57-147	17		30
Vinyl chloride	118		104		67-130	13		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Lab Number: L2047640
Project Number: T20B-LARKIN DEV.
Report Date: 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1430441-3 WG1430441-4								
Chloroethane	136		123		50-151	10		30
1,1-Dichloroethene	109		100		65-135	9		30
trans-1,2-Dichloroethene	114		106		70-130	7		30
Trichloroethene	112		108		70-130	4		30
1,2-Dichlorobenzene	98		96		70-130	2		30
1,3-Dichlorobenzene	99		96		70-130	3		30
1,4-Dichlorobenzene	98		95		70-130	3		30
Methyl tert butyl ether	104		104		66-130	0		30
p/m-Xylene	102		96		70-130	6		30
o-Xylene	101		96		70-130	5		30
cis-1,2-Dichloroethene	114		108		70-130	5		30
Styrene	99		95		70-130	4		30
Dichlorodifluoromethane	98		89		30-146	10		30
Acetone	95		95		54-140	0		30
Carbon disulfide	100		91		59-130	9		30
2-Butanone	82		86		70-130	5		30
4-Methyl-2-pentanone	76		75		70-130	1		30
2-Hexanone	**62**	Q	**64**	Q	70-130	3		30
Bromochloromethane	120		119		70-130	1		30
1,2-Dibromoethane	100		101		70-130	1		30
1,2-Dibromo-3-chloropropane	81		89		68-130	9		30
Isopropylbenzene	95		89		70-130	7		30
1,2,3-Trichlorobenzene	96		96		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1430441-3 WG1430441-4								
1,2,4-Trichlorobenzene	98		95		70-130	3		30
Methyl Acetate	88		90		51-146	2		30
Cyclohexane	97		90		59-142	7		30
1,4-Dioxane	104		108		65-136	4		30
Freon-113	116		108		50-139	7		30
Methyl cyclohexane	110		100		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		93		70-130
Toluene-d8	91		91		70-130
4-Bromofluorobenzene	91		93		70-130
Dibromofluoromethane	100		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Project Number: T20B-LARKIN DEV.

Lab Number: L2047640
Report Date: 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG1430721-3 WG1430721-4								
Chloroform	96		93		70-130	3		20
Carbon tetrachloride	98		96		63-132	2		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	98		94		75-130	4		25
1,2-Dichloroethane	92		87		70-130	6		20
Benzene	92		88		70-130	4		25
Vinyl chloride	83		78		55-140	6		20
1,1-Dichloroethene	93		90		61-145	3		25
Trichloroethene	93		90		70-130	3		25
1,4-Dichlorobenzene	100		100		70-130	0		20
2-Butanone	67		63		63-138	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		101		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	95		90		70-130
dibromofluoromethane	100		98		70-130

SEMIVOLATILES

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-01	Date Collected:	10/28/20 16:30
Client ID:	PARKING LOT CIU 3 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	11/02/20 21:09
Analytical Date:	11/04/20 17:13		
Analyst:	EK		
Percent Solids:	84%		
TCLP/SPLP Ext. Date:	11/01/20 14:20		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	72		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	73		33-120

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID: L2047640-01
Client ID: PARKING LOT CIU 3 20201028
Sample Location: 822 SENECA ST. BUFFALO NY
Date Collected: 10/28/20 16:30
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/02/20 19:11
Analyst: IM
Percent Solids: 84%
Extraction Method: EPA 3546
Extraction Date: 11/01/20 18:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	8490		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	3670		ug/kg	120	22.	1
Benzo(a)pyrene	3710		ug/kg	150	47.	1

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-01	Date Collected:	10/28/20 16:30
Client ID:	PARKING LOT CIU 3 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	3120		ug/kg	120	32.	1
Benzo(k)fluoranthene	2510		ug/kg	120	31.	1
Chrysene	3510		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	63	J	ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	88	J	ug/kg	120	23.	1
Dibenzo(a,h)anthracene	737		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	53	J	ug/kg	150	27.	1
Pyrene	120		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Carbazole	ND		ug/kg	190	19.	1
Atrazine	ND		ug/kg	150	67.	1
Benzaldehyde	ND		ug/kg	250	52.	1

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-01	Date Collected:	10/28/20 16:30
Client ID:	PARKING LOT CIU 3 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	101		10-136
4-Terphenyl-d14	64		18-120

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-02	Date Collected:	10/28/20 16:35
Client ID:	PARKING LOT CIU 4 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	11/02/20 21:09
Analytical Date:	11/04/20 14:43		
Analyst:	EK		
Percent Solids:	86%		
TCLP/SPLP Ext. Date:	11/01/20 14:20		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		21-120
Phenol-d6	71		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	74		33-120

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-02	Date Collected:	10/28/20 16:35
Client ID:	PARKING LOT CIU 4 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	11/01/20 18:50
Analytical Date:	11/02/20 19:34		
Analyst:	IM		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	7670		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	3140		ug/kg	110	21.	1
Benzo(a)pyrene	2930		ug/kg	150	46.	1

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-02	Date Collected:	10/28/20 16:35
Client ID:	PARKING LOT CIU 4 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	2910		ug/kg	110	32.	1
Benzo(k)fluoranthene	1970		ug/kg	110	30.	1
Chrysene	2960		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	83	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	120		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	68	J	ug/kg	150	26.	1
Pyrene	170		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	21	J	ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	ND		ug/kg	250	51.	1

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-02	Date Collected:	10/28/20 16:35
Client ID:	PARKING LOT CIU 4 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	91		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	114		10-136
4-Terphenyl-d14	77		18-120

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/02/20 09:15
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/31/20 20:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1428968-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/02/20 09:15
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/31/20 20:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1428968-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

Method Blank Analysis
Batch Quality Control

Analytical Method:	1,8270D	Extraction Method:	EPA 3546
Analytical Date:	11/02/20 09:15	Extraction Date:	10/31/20 20:07
Analyst:	IM		

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1428968-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	81		18-120

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Lab Number: L2047640
Project Number: T20B-LARKIN DEV.
Report Date: 11/09/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/20 07:04
Analyst: WR
TCLP/SPLP Extraction Date: 11/01/20 14:20

Extraction Method: EPA 3510C
Extraction Date: 11/02/20 21:09

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01-02 Batch: WG1429522-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	69		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Lab Number: L2047640
Project Number: T20B-LARKIN DEV.
Report Date: 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1428968-2 WG1428968-3								
Acenaphthene	72		72		31-137	0		50
Hexachlorobenzene	63		64		40-140	2		50
Bis(2-chloroethyl)ether	64		65		40-140	2		50
2-Chloronaphthalene	66		68		40-140	3		50
3,3'-Dichlorobenzidine	63		65		40-140	3		50
2,4-Dinitrotoluene	75		76		40-132	1		50
2,6-Dinitrotoluene	72		72		40-140	0		50
Fluoranthene	71		72		40-140	1		50
4-Chlorophenyl phenyl ether	65		68		40-140	5		50
4-Bromophenyl phenyl ether	64		66		40-140	3		50
Bis(2-chloroisopropyl)ether	57		58		40-140	2		50
Bis(2-chloroethoxy)methane	67		68		40-117	1		50
Hexachlorobutadiene	55		57		40-140	4		50
Hexachlorocyclopentadiene	52		54		40-140	4		50
Hexachloroethane	59		60		40-140	2		50
Isophorone	64		65		40-140	2		50
Naphthalene	62		64		40-140	3		50
Nitrobenzene	64		66		40-140	3		50
NDPA/DPA	69		70		36-157	1		50
n-Nitrosodi-n-propylamine	66		67		32-121	2		50
Bis(2-ethylhexyl)phthalate	86		88		40-140	2		50
Butyl benzyl phthalate	78		81		40-140	4		50
Di-n-butylphthalate	79		81		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Lab Number: L2047640
Project Number: T20B-LARKIN DEV.
Report Date: 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1428968-2 WG1428968-3								
Di-n-octylphthalate	87		90		40-140	3		50
Diethyl phthalate	71		73		40-140	3		50
Dimethyl phthalate	69		70		40-140	1		50
Benzo(a)anthracene	75		76		40-140	1		50
Benzo(a)pyrene	86		86		40-140	0		50
Benzo(b)fluoranthene	80		80		40-140	0		50
Benzo(k)fluoranthene	76		78		40-140	3		50
Chrysene	74		75		40-140	1		50
Acenaphthylene	70		71		40-140	1		50
Anthracene	76		77		40-140	1		50
Benzo(ghi)perylene	80		80		40-140	0		50
Fluorene	70		71		40-140	1		50
Phenanthrene	73		75		40-140	3		50
Dibenzo(a,h)anthracene	79		80		40-140	1		50
Indeno(1,2,3-cd)pyrene	80		81		40-140	1		50
Pyrene	72		73		35-142	1		50
Biphenyl	72		73		37-127	1		50
4-Chloroaniline	51		52		40-140	2		50
2-Nitroaniline	77		79		47-134	3		50
3-Nitroaniline	59		62		26-129	5		50
4-Nitroaniline	78		80		41-125	3		50
Dibenzofuran	70		72		40-140	3		50
2-Methylnaphthalene	68		70		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Lab Number: L2047640
Project Number: T20B-LARKIN DEV.
Report Date: 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1428968-2 WG1428968-3								
1,2,4,5-Tetrachlorobenzene	61		62		40-117	2		50
Acetophenone	70		70		14-144	0		50
2,4,6-Trichlorophenol	68		67		30-130	1		50
p-Chloro-m-cresol	73		75		26-103	3		50
2-Chlorophenol	68		68		25-102	0		50
2,4-Dichlorophenol	75		76		30-130	1		50
2,4-Dimethylphenol	76		78		30-130	3		50
2-Nitrophenol	71		72		30-130	1		50
4-Nitrophenol	78		80		11-114	3		50
2,4-Dinitrophenol	63		68		4-130	8		50
4,6-Dinitro-o-cresol	66		67		10-130	2		50
Pentachlorophenol	66		66		17-109	0		50
Phenol	64		65		26-90	2		50
2-Methylphenol	70		73		30-130.	4		50
3-Methylphenol/4-Methylphenol	70		73		30-130	4		50
2,4,5-Trichlorophenol	68		69		30-130	1		50
Carbazole	78		80		54-128	3		50
Atrazine	77		79		40-140	3		50
Benzaldehyde	65		65		40-140	0		50
Caprolactam	71		74		15-130	4		50
2,3,4,6-Tetrachlorophenol	64		67		40-140	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1428968-2 WG1428968-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		72		25-120
Phenol-d6	73		74		10-120
Nitrobenzene-d5	69		70		23-120
2-Fluorobiphenyl	69		71		30-120
2,4,6-Tribromophenol	70		71		10-136
4-Terphenyl-d14	75		76		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG1429522-2 WG1429522-3								
Hexachlorobenzene	52		56		40-140	7		30
2,4-Dinitrotoluene	65		70		40-132	7		30
Hexachlorobutadiene	48		51		28-111	6		30
Hexachloroethane	56		58		21-105	4		30
Nitrobenzene	65		70		40-140	7		30
2,4,6-Trichlorophenol	56		60		30-130	7		30
Pentachlorophenol	53		57		9-103	7		30
2-Methylphenol	64		70		30-130	9		30
3-Methylphenol/4-Methylphenol	66		72		30-130	9		30
2,4,5-Trichlorophenol	58		61		30-130	5		30
Pyridine	16		20		10-66	22		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	66		71		21-120
Phenol-d6	62		68		10-120
Nitrobenzene-d5	69		75		23-120
2-Fluorobiphenyl	60		64		15-120
2,4,6-Tribromophenol	60		64		10-120
4-Terphenyl-d14	62		65		33-120

PCBS

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Lab Number: L2047640
Project Number: T20B-LARKIN DEV.
Report Date: 11/09/20

SAMPLE RESULTS

Lab ID: L2047640-01
Client ID: PARKING LOT CIU 3 20201028
Sample Location: 822 SENECA ST. BUFFALO NY

Date Collected: 10/28/20 16:30
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/02/20 11:55
Analyst: AD
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/31/20 23:53
Cleanup Method: EPA 3665A
Cleanup Date: 11/01/20
Cleanup Method: EPA 3660B
Cleanup Date: 11/01/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.6	3.43	1	A
Aroclor 1221	ND		ug/kg	38.6	3.87	1	A
Aroclor 1232	ND		ug/kg	38.6	8.18	1	A
Aroclor 1242	ND		ug/kg	38.6	5.20	1	A
Aroclor 1248	ND		ug/kg	38.6	5.79	1	A
Aroclor 1254	ND		ug/kg	38.6	4.22	1	A
Aroclor 1260	ND		ug/kg	38.6	7.13	1	A
Aroclor 1262	ND		ug/kg	38.6	4.90	1	A
Aroclor 1268	ND		ug/kg	38.6	4.00	1	A
PCBs, Total	ND		ug/kg	38.6	3.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID: L2047640-02
Client ID: PARKING LOT CIU 4 20201028
Sample Location: 822 SENECA ST. BUFFALO NY

Date Collected: 10/28/20 16:35
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/02/20 12:02
Analyst: AD
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/31/20 23:53
Cleanup Method: EPA 3665A
Cleanup Date: 11/01/20
Cleanup Method: EPA 3660B
Cleanup Date: 11/01/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	3.30	1	A
Aroclor 1221	ND		ug/kg	37.2	3.73	1	A
Aroclor 1232	ND		ug/kg	37.2	7.89	1	A
Aroclor 1242	ND		ug/kg	37.2	5.02	1	A
Aroclor 1248	ND		ug/kg	37.2	5.58	1	B
Aroclor 1254	5.74	J	ug/kg	37.2	4.07	1	A
Aroclor 1260	ND		ug/kg	37.2	6.88	1	A
Aroclor 1262	ND		ug/kg	37.2	4.72	1	A
Aroclor 1268	ND		ug/kg	37.2	3.85	1	A
PCBs, Total	5.74	J	ug/kg	37.2	3.30	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

Method Blank Analysis
Batch Quality Control

Analytical Method:	1,8082A
Analytical Date:	11/02/20 10:06
Analyst:	JM

Extraction Method:	EPA 3546
Extraction Date:	10/31/20 23:51
Cleanup Method:	EPA 3665A
Cleanup Date:	11/01/20
Cleanup Method:	EPA 3660B
Cleanup Date:	11/01/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1428986-1						
Aroclor 1016	ND		ug/kg	32.5	2.88	A
Aroclor 1221	ND		ug/kg	32.5	3.25	A
Aroclor 1232	ND		ug/kg	32.5	6.88	A
Aroclor 1242	ND		ug/kg	32.5	4.38	A
Aroclor 1248	ND		ug/kg	32.5	4.87	A
Aroclor 1254	ND		ug/kg	32.5	3.55	A
Aroclor 1260	ND		ug/kg	32.5	6.00	A
Aroclor 1262	ND		ug/kg	32.5	4.12	A
Aroclor 1268	ND		ug/kg	32.5	3.36	A
PCBs, Total	ND		ug/kg	32.5	2.88	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	67		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Lab Number: L2047640
Project Number: T20B-LARKIN DEV.
Report Date: 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1428986-2 WG1428986-3									
Aroclor 1016	99		100		40-140	1		50	A
Aroclor 1260	97		99		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		77		30-150	A
Decachlorobiphenyl	65		64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		74		30-150	B
Decachlorobiphenyl	58		58		30-150	B

PESTICIDES

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Lab Number: L2047640
Project Number: T20B-LARKIN DEV.
Report Date: 11/09/20

SAMPLE RESULTS

Lab ID: L2047640-01
Client ID: PARKING LOT CIU 3 20201028
Sample Location: 822 SENECA ST. BUFFALO NY
Date Collected: 10/28/20 16:30
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/03/20 13:25
Analyst: JMC
Percent Solids: 84%
TCLP/SPLP Ext. Date: 11/01/20 14:20
Extraction Method: EPA 3510C
Extraction Date: 11/02/20 20:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	118		30-150	A
Decachlorobiphenyl	134		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	135		30-150	B

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID: L2047640-01
Client ID: PARKING LOT CIU 3 20201028
Sample Location: 822 SENECA ST. BUFFALO NY

Date Collected: 10/28/20 16:30
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/04/20 09:59
Analyst: SM
Percent Solids: 84%
TCLP/SPLP Ext. Date: 11/01/20 14:20
Methylation Date: 11/03/20 21:04

Extraction Method: EPA 8151A
Extraction Date: 11/03/20 08:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	53		30-150	A
DCAA	44		30-150	B

Project Name: T20B-LARKIN DEVELOPMENT AMERIP | **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. | **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID: L2047640-02
Client ID: PARKING LOT CIU 4 20201028
Sample Location: 822 SENECA ST. BUFFALO NY

Date Collected: 10/28/20 16:35
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/03/20 13:37
Analyst: JMC
Percent Solids: 86%
TCLP/SPLP Ext. Date: 11/01/20 14:20

Extraction Method: EPA 3510C
Extraction Date: 11/02/20 20:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	106		30-150	A
Decachlorobiphenyl	127		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	126		30-150	B

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-02	Date Collected:	10/28/20 16:35
Client ID:	PARKING LOT CIU 4 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	11/03/20 08:56
Analytical Date:	11/04/20 10:17		
Analyst:	SM		
Percent Solids:	86%		
TCLP/SPLP Ext. Date:	11/01/20 14:20		
Methylation Date:	11/03/20 21:04		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	49		30-150	A
DCAA	42		30-150	B

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Lab Number: L2047640
Project Number: T20B-LARKIN DEV.
Report Date: 11/09/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 11/03/20 12:51
Analyst: JMC
TCLP/SPLP Extraction Date: 11/01/20 14:20

Extraction Method: EPA 3510C
Extraction Date: 11/02/20 20:48

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 01-02 Batch: WG1429511-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	119		30-150	A
Decachlorobiphenyl	140		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	132		30-150	B

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

Method Blank Analysis
Batch Quality Control

Analytical Method:	1,8151A	Extraction Method:	EPA 8151A
Analytical Date:	11/04/20 09:04	Extraction Date:	11/03/20 08:56
Analyst:	SM		
TCLP/SPLP Extraction Date:	11/01/20 14:20		
Methylation Date:	11/03/20 21:04		

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 01-02 Batch: WG1429713-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	65		30-150	A
DCAA	60		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Project Number: T20B-LARKIN DEV.
Lab Number: L2047640
Report Date: 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG1429511-2 WG1429511-3									
Lindane	99		111		30-150	12		20	A
Heptachlor	104		117		30-150	12		20	A
Heptachlor epoxide	102		115		30-150	12		20	A
Endrin	105		121		30-150	14		20	A
Methoxychlor	115		134		30-150	15		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	103		111		30-150	A
Decachlorobiphenyl	121		133		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		98		30-150	B
Decachlorobiphenyl	121		134		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG1429713-2 WG1429713-3									
2,4-D	113		94		30-150	18		25	A
2,4,5-TP (Silvex)	61		42		30-150	**37**	Q	25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	65		44		30-150	A
DCAA	69		50		30-150	B

METALS

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID: L2047640-01
Date Collected: 10/28/20 16:30
Client ID: PARKING LOT CIU 3 20201028
Date Received: 10/30/20
Sample Location: 822 SENECA ST. BUFFALO NY
Field Prep: Not Specified

Sample Depth:
TCLP/SPLP Ext. Date: 11/01/20 14:20
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	11/04/20 14:54	11/06/20 15:54	EPA 3015	1,6010D	BV
Barium, TCLP	0.509		mg/l	0.500	0.021	1	11/04/20 14:54	11/06/20 15:54	EPA 3015	1,6010D	BV
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	11/04/20 14:54	11/06/20 15:54	EPA 3015	1,6010D	BV
Chromium, TCLP	0.021	J	mg/l	0.200	0.021	1	11/04/20 14:54	11/06/20 15:54	EPA 3015	1,6010D	BV
Lead, TCLP	ND		mg/l	0.500	0.027	1	11/04/20 14:54	11/06/20 15:54	EPA 3015	1,6010D	BV
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	11/04/20 15:10	11/05/20 13:19	EPA 7470A	1,7470A	EW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	11/04/20 14:54	11/06/20 15:54	EPA 3015	1,6010D	BV
Silver, TCLP	ND		mg/l	0.100	0.028	1	11/04/20 14:54	11/06/20 15:54	EPA 3015	1,6010D	BV

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-01	Date Collected:	10/28/20 16:30
Client ID:	PARKING LOT CIU 3 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.86		mg/kg	0.445	0.093	1	11/04/20 05:30	11/05/20 23:54	EPA 3050B	1,6010D	BV
Barium, Total	36.6		mg/kg	0.445	0.078	1	11/04/20 05:30	11/05/20 23:54	EPA 3050B	1,6010D	BV
Cadmium, Total	0.392	J	mg/kg	0.445	0.044	1	11/04/20 05:30	11/05/20 23:54	EPA 3050B	1,6010D	BV
Chromium, Total	9.64		mg/kg	0.445	0.043	1	11/04/20 05:30	11/05/20 23:54	EPA 3050B	1,6010D	BV
Lead, Total	98.4		mg/kg	2.23	0.119	1	11/04/20 05:30	11/05/20 23:54	EPA 3050B	1,6010D	BV
Mercury, Total	0.050	J	mg/kg	0.076	0.049	1	11/04/20 08:40	11/04/20 20:01	EPA 7471B	1,7471B	AL
Selenium, Total	0.860	J	mg/kg	0.891	0.115	1	11/04/20 05:30	11/05/20 23:54	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.445	0.126	1	11/04/20 05:30	11/05/20 23:54	EPA 3050B	1,6010D	BV

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640

Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID: L2047640-02 Date Collected: 10/28/20 16:35
Client ID: PARKING LOT CIU 4 20201028 Date Received: 10/30/20
Sample Location: 822 SENECA ST. BUFFALO NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 11/01/20 14:20
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	11/04/20 14:54	11/06/20 16:27	EPA 3015	1,6010D	BV
Barium, TCLP	0.589		mg/l	0.500	0.021	1	11/04/20 14:54	11/06/20 16:27	EPA 3015	1,6010D	BV
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	11/04/20 14:54	11/06/20 16:27	EPA 3015	1,6010D	BV
Chromium, TCLP	ND		mg/l	0.200	0.021	1	11/04/20 14:54	11/06/20 16:27	EPA 3015	1,6010D	BV
Lead, TCLP	ND		mg/l	0.500	0.027	1	11/04/20 14:54	11/06/20 16:27	EPA 3015	1,6010D	BV
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	11/04/20 15:10	11/05/20 13:26	EPA 7470A	1,7470A	EW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	11/04/20 14:54	11/06/20 16:27	EPA 3015	1,6010D	BV
Silver, TCLP	ND		mg/l	0.100	0.028	1	11/04/20 14:54	11/06/20 16:27	EPA 3015	1,6010D	BV

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-02	Date Collected:	10/28/20 16:35
Client ID:	PARKING LOT CIU 4 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.23		mg/kg	0.446	0.093	1	11/04/20 05:30	11/05/20 23:59	EPA 3050B	1,6010D	BV
Barium, Total	66.8		mg/kg	0.446	0.078	1	11/04/20 05:30	11/05/20 23:59	EPA 3050B	1,6010D	BV
Cadmium, Total	0.344	J	mg/kg	0.446	0.044	1	11/04/20 05:30	11/05/20 23:59	EPA 3050B	1,6010D	BV
Chromium, Total	6.94		mg/kg	0.446	0.043	1	11/04/20 05:30	11/05/20 23:59	EPA 3050B	1,6010D	BV
Lead, Total	142.0		mg/kg	2.23	0.120	1	11/04/20 05:30	11/05/20 23:59	EPA 3050B	1,6010D	BV
Mercury, Total	0.072	J	mg/kg	0.074	0.048	1	11/04/20 08:40	11/04/20 20:05	EPA 7471B	1,7471B	AL
Selenium, Total	1.05		mg/kg	0.892	0.115	1	11/04/20 05:30	11/05/20 23:59	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.446	0.126	1	11/04/20 05:30	11/05/20 23:59	EPA 3050B	1,6010D	BV

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1429769-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	11/04/20 05:30	11/05/20 20:53	1,6010D	BV
Barium, Total	ND		mg/kg	0.400	0.070	1	11/04/20 05:30	11/05/20 20:53	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/04/20 05:30	11/05/20 20:53	1,6010D	BV
Chromium, Total	ND		mg/kg	0.400	0.038	1	11/04/20 05:30	11/05/20 20:53	1,6010D	BV
Lead, Total	ND		mg/kg	2.00	0.107	1	11/04/20 05:30	11/05/20 20:53	1,6010D	BV
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/04/20 05:30	11/05/20 20:53	1,6010D	BV
Silver, Total	ND		mg/kg	0.400	0.113	1	11/04/20 05:30	11/05/20 20:53	1,6010D	BV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1429771-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	11/04/20 08:40	11/04/20 19:02	1,7471B	AL

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-02 Batch: WG1430312-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	11/04/20 14:54	11/06/20 15:45	1,6010D	BV
Barium, TCLP	0.047	J	mg/l	0.500	0.021	1	11/04/20 14:54	11/06/20 15:45	1,6010D	BV
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	11/04/20 14:54	11/06/20 15:45	1,6010D	BV
Chromium, TCLP	ND		mg/l	0.200	0.021	1	11/04/20 14:54	11/06/20 15:45	1,6010D	BV
Lead, TCLP	ND		mg/l	0.500	0.027	1	11/04/20 14:54	11/06/20 15:45	1,6010D	BV
Selenium, TCLP	ND		mg/l	0.500	0.035	1	11/04/20 14:54	11/06/20 15:45	1,6010D	BV
Silver, TCLP	ND		mg/l	0.100	0.028	1	11/04/20 14:54	11/06/20 15:45	1,6010D	BV

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 11/01/20 14:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-02 Batch: WG1430313-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	11/04/20 15:10	11/05/20 13:07	1,7470A	EW

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 11/01/20 14:20

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Lab Number: L2047640
Project Number: T20B-LARKIN DEV.
Report Date: 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1429769-2 SRM Lot Number: D109-540								
Arsenic, Total	90		-		70-130	-		
Barium, Total	84		-		75-125	-		
Cadmium, Total	97		-		75-125	-		
Chromium, Total	88		-		70-130	-		
Lead, Total	85		-		72-128	-		
Selenium, Total	90		-		68-132	-		
Silver, Total	84		-		68-131	-		
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1429771-2 SRM Lot Number: D109-540								
Mercury, Total	103		-		60-140	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1430312-2								
Arsenic, TCLP	107		-		75-125	-		20
Barium, TCLP	104		-		75-125	-		20
Cadmium, TCLP	104		-		75-125	-		20
Chromium, TCLP	102		-		75-125	-		20
Lead, TCLP	104		-		75-125	-		20
Selenium, TCLP	93		-		75-125	-		20
Silver, TCLP	97		-		75-125	-		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP

Project Number: T20B-LARKIN DEV.

Lab Number: L2047640

Report Date: 11/09/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1430313-2					
Mercury, TCLP	101	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Project Number: T20B-LARKIN DEV.
Lab Number: L2047640
Report Date: 11/09/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1429769-3 QC Sample: L2047642-05 Client ID: MS Sample												
Arsenic, Total	2.69	10.4	12.2	92		-	-		75-125	-		20
Barium, Total	110	173	283	100		-	-		75-125	-		20
Cadmium, Total	0.375J	4.41	4.56	103		-	-		75-125	-		20
Chromium, Total	24.7	17.3	40.4	91		-	-		75-125	-		20
Lead, Total	26.4	44.1	61.6	80		-	-		75-125	-		20
Selenium, Total	0.392J	10.4	9.75	94		-	-		75-125	-		20
Silver, Total	ND	26	23.1	89		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1429771-3 QC Sample: L2047642-05 Client ID: MS Sample												
Mercury, Total	0.056J	0.147	0.194	**132**	Q	-	-		80-120	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1430312-3 QC Sample: L2047640-01 Client ID: PARKING LOT CIU 3 20201028												
Arsenic, TCLP	ND	1.2	1.31	109		-	-		75-125	-		20
Barium, TCLP	0.509	20	21.3	104		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.529	104		-	-		75-125	-		20
Chromium, TCLP	0.021J	2	2.02	101		-	-		75-125	-		20
Lead, TCLP	ND	5.1	5.14	101		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.19	99		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.494	99		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1430313-3 QC Sample: L2047640-01 Client ID: PARKING LOT CIU 3 20201028												
Mercury, TCLP	ND	0.025	0.0255	102		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Project Number: T20B-LARKIN DEV.

Lab Number: L2047640
Report Date: 11/09/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1429769-4 QC Sample: L2047642-05 Client ID: DUP Sample						
Arsenic, Total	2.69	3.05	mg/kg	13		20
Barium, Total	110	109	mg/kg	1		20
Cadmium, Total	0.375J	0.401J	mg/kg	NC		20
Chromium, Total	24.7	23.2	mg/kg	6		20
Lead, Total	26.4	35.1	mg/kg	**28**	Q	20
Selenium, Total	0.392J	0.374J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1429771-4 QC Sample: L2047642-05 Client ID: DUP Sample						
Mercury, Total	0.056J	0.061J	mg/kg	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1430312-4 QC Sample: L2047640-01 Client ID: PARKING LOT CIU 3 20201028						
Arsenic, TCLP	ND	0.026J	mg/l	NC		20
Barium, TCLP	0.509	0.521	mg/l	2		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	0.021J	ND	mg/l	NC		20
Lead, TCLP	ND	0.028J	mg/l	NC		20
Selenium, TCLP	ND	0.043J	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Project Number: T20B-LARKIN DEV.

Lab Number: L2047640
Report Date: 11/09/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1430313-4 QC Sample: L2047640-01 Client ID: PARKING LOT CIU 3 20201028					
Mercury, TCLP	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name:	T20B-LARKIN DEVELOPMENT AMERI	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-01	Date Collected:	10/28/20 16:30
Client ID:	PARKING LOT CIU 3 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Clay
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	11/03/20 08:00	1,1030	MV

Project Name:	T20B-LARKIN DEVELOPMENT AMERI	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

SAMPLE RESULTS

Lab ID:	L2047640-02	Date Collected:	10/28/20 16:35
Client ID:	PARKING LOT CIU 4 20201028	Date Received:	10/30/20
Sample Location:	822 SENECA ST. BUFFALO NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Clay
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	11/03/20 08:00	1,1030	MV

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Project Number: T20B-LARKIN DEV.

Lab Number: L2047640
Report Date: 11/09/20

SAMPLE RESULTS

Lab ID: L2047640-01
Client ID: PARKING LOT CIU 3 20201028
Sample Location: 822 SENECA ST. BUFFALO NY

Date Collected: 10/28/20 16:30
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	10/31/20 13:21	121,2540G	RI
pH (H)	8.3		SU	-	NA	1	-	11/02/20 18:23	1,9045D	AS
Cyanide, Reactive	ND		mg/kg	10	10.	1	11/05/20 07:38	11/05/20 09:59	125,7.3	JA
Sulfide, Reactive	ND		mg/kg	10	10.	1	11/05/20 07:38	11/05/20 09:48	125,7.3	JA

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

SAMPLE RESULTS

Lab ID: L2047640-02 Date Collected: 10/28/20 16:35
Client ID: PARKING LOT CIU 4 20201028 Date Received: 10/30/20
Sample Location: 822 SENECA ST. BUFFALO NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	10/31/20 13:21	121,2540G	RI
pH (H)	8.1		SU	-	NA	1	-	11/02/20 18:23	1,9045D	AS
Cyanide, Reactive	ND		mg/kg	10	10.	1	11/05/20 07:38	11/05/20 09:59	125,7.3	JA
Sulfide, Reactive	ND		mg/kg	10	10.	1	11/05/20 07:38	11/05/20 09:49	125,7.3	JA

Project Name: T20B-LARKIN DEVELOPMENT AMERI **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1430636-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	11/05/20 07:38	11/05/20 09:47	125,7.3	JA
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1430638-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	11/05/20 07:38	11/05/20 09:57	125,7.3	JA

Lab Control Sample Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP

Project Number: T20B-LARKIN DEV.

Lab Number: L2047640

Report Date: 11/09/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1429461-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1430636-2								
Sulfide, Reactive	95		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1430638-2								
Cyanide, Reactive	32		-		30-125	-		40

Lab Duplicate Analysis
Batch Quality Control

Project Name: T20B-LARKIN DEVELOPMENT AMERIP
Project Number: T20B-LARKIN DEV.

Lab Number: L2047640
Report Date: 11/09/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1428834-1 QC Sample: L2047577-02 Client ID: DUP Sample						
Solids, Total	82.6	82.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1429461-2 QC Sample: L2047607-01 Client ID: DUP Sample						
pH	6.7	8.0	SU	**18**	Q	5
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1430636-3 QC Sample: L2047622-01 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1430638-3 QC Sample: L2047622-01 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2047640-01A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L2047640-01B	Vial water preserved	A	NA		2.4	Y	Absent	**31-OCT-20 06:13**	NYTCL-8260HLW-R2(14)
L2047640-01C	Vial water preserved	A	NA		2.4	Y	Absent	**31-OCT-20 06:13**	NYTCL-8260HLW-R2(14)
L2047640-01D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L2047640-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2047640-01F	Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		TCLP-EXT-ZHE(14)
L2047640-01G	Glass 250ml/8oz unpreserved	A	NA		2.4	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),PH-9045(1),NYTCL-8082(14),REACTCN(14)
L2047640-01H	Glass 250ml/8oz unpreserved	A	NA		2.4	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),PH-9045(1),NYTCL-8082(14),REACTCN(14)
L2047640-01W	Amber 1000ml unpreserved Extracts	A	NA		2.4	Y	Absent		TCLP-8270(14),PEST-TCLP*(14),HERB-TCLP*(14)
L2047640-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.4	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2047640-01X9	Tumble Vessel	A	NA		2.4	Y	Absent		-
L2047640-01Y	Vial unpreserved Extracts	A	NA		2.4	Y	Absent		TCLP-VOA(14)
L2047640-01Z	Vial unpreserved Extracts	A	NA		2.4	Y	Absent		TCLP-VOA(14)
L2047640-02A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L2047640-02B	Vial water preserved	A	NA		2.4	Y	Absent	**31-OCT-20 06:13**	NYTCL-8260HLW-R2(14)
L2047640-02C	Vial water preserved	A	NA		2.4	Y	Absent	**31-OCT-20 06:13**	NYTCL-8260HLW-R2(14)
L2047640-02D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L2047640-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2047640-02F	Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		TCLP-EXT-ZHE(14)
L2047640-02G	Glass 250ml/8oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),IGNIT-1030(14),REACTS(14),PH-9045(1),NYTCL-8082(14),REACTCN(14)
L2047640-02H	Glass 250ml/8oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),IGNIT-1030(14),REACTS(14),PH-9045(1),NYTCL-8082(14),REACTCN(14)
L2047640-02W	Amber 1000ml unpreserved Extracts	A	NA		2.4	Y	Absent		TCLP-8270(14),PEST-TCLP*(14),HERB-TCLP*(14)
L2047640-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.4	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2047640-02X9	Tumble Vessel	A	NA		2.4	Y	Absent		-
L2047640-02Y	Vial unpreserved Extracts	A	NA		2.4	Y	Absent		TCLP-VOA(14)
L2047640-02Z	Vial unpreserved Extracts	A	NA		2.4	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Project Name:	T20B-LARKIN DEVELOPMENT AMERIP	**Lab Number:**	L2047640
Project Number:	T20B-LARKIN DEV.	**Report Date:**	11/09/20

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name: T20B-LARKIN DEVELOPMENT AMERIP **Lab Number:** L2047640
Project Number: T20B-LARKIN DEV. **Report Date:** 11/09/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Page 1 of 1

Date Rec'd in Lab: 10/31/20

ALPHA Job #: L2047140

Project Information
Project Name: T20B - Larkin Development AmeriPride
Project Location: 822 Seneca St. Buffalo NY
Project #
(Use Project name as Project #) [X]
Project Manager: Brandon Quinn
ALPHAQuote #:

Client Information
Client: AFI Environmental
Address: 8644 Buffalo Ave
Niagara Falls NY 14304
Phone: (716)283-7645
Fax:
Email: on File

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [X] EQuIS (4 File)
[ ] Other NYSDEC 3File

Billing Information
[X] Same as Client Info
PO #

Regulatory Requirement
[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs, PCBs, Ignitability	pH	RCRA 8 metals	Reactive sulfide/cyanide	TCLP SVOCs	TCLP VOCs	TCLP Herb/Pest	TCLP metals	Sample Specific Comments	Total Bottles
47640-01	Parking lot CFU 3 20201028	10/28/20	16:30	Soil	BQ	X	X	X	X	X	X	X	X	X		
-02	Parking lot CFU 4 20201028	10/28/20	16:35	Soil	BQ	X	X	X	X	X	X	X	X	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/30/20 14:05	J. Dorman AAL	10/30/20 14:05
J. Dorman AAL	10/30/20 14:30	[signature]	10/31/20 00:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2047700
Client:	AFI Environmental 8644 Buffalo Avenue PO Box 4049 Niagara Falls, NY 14304
ATTN:	Brandon Quinn
Phone:	(716) 283-7645
Project Name:	I20B-LARKIN DEVELOPMENT
Project Number:	Not Specified
Report Date:	11/05/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2047700
Report Date: 11/05/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2047700-01	PARKING LOT CIU 5 20201028	SOIL	922 SENECA STREET	10/29/20 12:45	10/30/20
L2047700-02	PARKING LOT CIU 6 20201028	SOIL	922 SENECA STREET	10/29/20 12:45	10/30/20
L2047700-03	PARKING LOT CIU 7 20201028	SOIL	922 SENECA STREET	10/29/20 12:45	10/30/20
L2047700-04	PARKING LOT CIU 8 20201028	SOIL	922 SENECA STREET	10/29/20 12:45	10/30/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700
Project Number: Not Specified **Report Date:** 11/05/20

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 11/05/20

ORGANICS

VOLATILES

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700
Project Number: Not Specified **Report Date:** 11/05/20

SAMPLE RESULTS

Lab ID: L2047700-01
Client ID: PARKING LOT CIU 5 20201028
Sample Location: 922 SENECA STREET

Date Collected: 10/29/20 12:45
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/04/20 18:56
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	0.26	J	ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.92	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.49	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700
Project Number: Not Specified **Report Date:** 11/05/20

SAMPLE RESULTS

Lab ID:	L2047700-01	Date Collected:	10/29/20 12:45
Client ID:	PARKING LOT CIU 5 20201028	Date Received:	10/30/20
Sample Location:	922 SENECA STREET	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.90	1
Acetone	ND		ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	4.0	0.64	1
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	4.0	0.94	1
Cyclohexane	ND		ug/kg	9.9	0.54	1
Freon-113	ND		ug/kg	4.0	0.68	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	98		70-130

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700

Project Number: Not Specified **Report Date:** 11/05/20

SAMPLE RESULTS

Lab ID: L2047700-02 Date Collected: 10/29/20 12:45

Client ID: PARKING LOT CIU 6 20201028 Date Received: 10/30/20

Sample Location: 922 SENECA STREET Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 11/04/20 19:22

Analyst: JC

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	0.42	J	ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700

Project Number: Not Specified **Report Date:** 11/05/20

SAMPLE RESULTS

Lab ID:	L2047700-02	Date Collected:	10/29/20 12:45
Client ID:	PARKING LOT CIU 6 20201028	Date Received:	10/30/20
Sample Location:	922 SENECA STREET	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	ND		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.8	0.91	1
Cyclohexane	ND		ug/kg	9.6	0.52	1
Freon-113	ND		ug/kg	3.8	0.66	1
Methyl cyclohexane	ND		ug/kg	3.8	0.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700

Project Number: Not Specified **Report Date:** 11/05/20

SAMPLE RESULTS

Lab ID: L2047700-03
Client ID: PARKING LOT CIU 7 20201028
Sample Location: 922 SENECA STREET

Date Collected: 10/29/20 12:45
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/05/20 09:37
Analyst: MV
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.11	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.24	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.85	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1
Trichloroethene	ND		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700

Project Number: Not Specified **Report Date:** 11/05/20

SAMPLE RESULTS

Lab ID:	L2047700-03	Date Collected:	10/29/20 12:45
Client ID:	PARKING LOT CIU 7 20201028	Date Received:	10/30/20
Sample Location:	922 SENECA STREET	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	ND		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.91	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	ND		ug/kg	3.7	0.59	1
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
Methyl Acetate	ND		ug/kg	3.7	0.87	1
Cyclohexane	ND		ug/kg	9.2	0.50	1
Freon-113	ND		ug/kg	3.7	0.63	1
Methyl cyclohexane	ND		ug/kg	3.7	0.55	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	97		70-130

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700

Project Number: Not Specified **Report Date:** 11/05/20

SAMPLE RESULTS

Lab ID: L2047700-04
Client ID: PARKING LOT CIU 8 20201028
Sample Location: 922 SENECA STREET

Date Collected: 10/29/20 12:45
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/05/20 10:02
Analyst: MV
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.93	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.93	0.12	1
Dibromochloromethane	ND		ug/kg	0.93	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	0.25	1
Tetrachloroethene	0.32	J	ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.93	0.51	1
Ethylbenzene	ND		ug/kg	0.93	0.13	1
Chloromethane	ND		ug/kg	3.7	0.87	1
Bromomethane	ND		ug/kg	1.9	0.54	1
Vinyl chloride	ND		ug/kg	0.93	0.31	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.93	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.13	1

Project Name:	I20B-LARKIN DEVELOPMENT	**Lab Number:**	L2047700
Project Number:	Not Specified	**Report Date:**	11/05/20

SAMPLE RESULTS

Lab ID:	L2047700-04	Date Collected:	10/29/20 12:45
Client ID:	PARKING LOT CIU 8 20201028	Date Received:	10/30/20
Sample Location:	922 SENECA STREET	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.52	1
o-Xylene	ND		ug/kg	0.93	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.16	1
Styrene	ND		ug/kg	0.93	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.86	1
Acetone	5.6	J	ug/kg	9.3	4.5	1
Carbon disulfide	ND		ug/kg	9.3	4.2	1
2-Butanone	ND		ug/kg	9.3	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	1.2	1
2-Hexanone	ND		ug/kg	9.3	1.1	1
1,2-Dibromoethane	ND		ug/kg	0.93	0.26	1
n-Butylbenzene	ND		ug/kg	0.93	0.16	1
sec-Butylbenzene	ND		ug/kg	0.93	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Isopropylbenzene	ND		ug/kg	0.93	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.10	1
Naphthalene	ND		ug/kg	3.7	0.61	1
n-Propylbenzene	ND		ug/kg	0.93	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
Methyl Acetate	ND		ug/kg	3.7	0.89	1
Cyclohexane	ND		ug/kg	9.3	0.51	1
Freon-113	ND		ug/kg	3.7	0.65	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	96		70-130

Project Name:	I20B-LARKIN DEVELOPMENT	**Lab Number:**	L2047700
Project Number:	Not Specified	**Report Date:**	11/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/20 16:54
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1430699-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700
Project Number: Not Specified **Report Date:** 11/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/20 16:54
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1430699-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700

Project Number: Not Specified **Report Date:** 11/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/20 16:54
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1430699-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	97		70-130

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700
Project Number: Not Specified **Report Date:** 11/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/05/20 06:37
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-04 Batch: WG1430747-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700
Project Number: Not Specified **Report Date:** 11/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/05/20 06:37
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-04 Batch: WG1430747-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	0.89	J	ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700
Project Number: Not Specified **Report Date:** 11/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/05/20 06:37
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-04 Batch: WG1430747-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Lab Number: L2047700
Project Number: Not Specified
Report Date: 11/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1430699-3 WG1430699-4								
Methylene chloride	87		84		70-130	4		30
1,1-Dichloroethane	94		91		70-130	3		30
Chloroform	88		85		70-130	3		30
Carbon tetrachloride	79		80		70-130	1		30
1,2-Dichloropropane	93		92		70-130	1		30
Dibromochloromethane	85		84		70-130	1		30
1,1,2-Trichloroethane	94		91		70-130	3		30
Tetrachloroethene	83		82		70-130	1		30
Chlorobenzene	85		85		70-130	0		30
Trichlorofluoromethane	**69**	Q	**66**	Q	70-139	4		30
1,2-Dichloroethane	91		89		70-130	2		30
1,1,1-Trichloroethane	82		82		70-130	0		30
Bromodichloromethane	85		84		70-130	1		30
trans-1,3-Dichloropropene	96		94		70-130	2		30
cis-1,3-Dichloropropene	90		90		70-130	0		30
Bromoform	93		90		70-130	3		30
1,1,2,2-Tetrachloroethane	98		94		70-130	4		30
Benzene	88		88		70-130	0		30
Toluene	91		91		70-130	0		30
Ethylbenzene	89		90		70-130	1		30
Chloromethane	69		65		52-130	6		30
Bromomethane	102		96		57-147	6		30
Vinyl chloride	74		71		67-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700
Project Number: Not Specified **Report Date:** 11/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1430699-3 WG1430699-4								
Chloroethane	84		79		50-151	6		30
1,1-Dichloroethene	82		77		65-135	6		30
trans-1,2-Dichloroethene	88		85		70-130	3		30
Trichloroethene	86		84		70-130	2		30
1,2-Dichlorobenzene	89		88		70-130	1		30
1,3-Dichlorobenzene	91		90		70-130	1		30
1,4-Dichlorobenzene	90		90		70-130	0		30
Methyl tert butyl ether	90		87		66-130	3		30
p/m-Xylene	87		88		70-130	1		30
o-Xylene	86		87		70-130	1		30
cis-1,2-Dichloroethene	87		86		70-130	1		30
Styrene	87		88		70-130	1		30
Dichlorodifluoromethane	46		43		30-146	7		30
Acetone	87		79		54-140	10		30
Carbon disulfide	77		73		59-130	5		30
2-Butanone	81		74		70-130	9		30
4-Methyl-2-pentanone	91		88		70-130	3		30
2-Hexanone	88		82		70-130	7		30
1,2-Dibromoethane	90		88		70-130	2		30
n-Butylbenzene	99		98		70-130	1		30
sec-Butylbenzene	95		94		70-130	1		30
tert-Butylbenzene	93		92		70-130	1		30
1,2-Dibromo-3-chloropropane	84		82		68-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2047700
Report Date: 11/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1430699-3 WG1430699-4								
Isopropylbenzene	97		96		70-130	1		30
p-Isopropyltoluene	93		93		70-130	0		30
Naphthalene	85		85		70-130	0		30
n-Propylbenzene	99		98		70-130	1		30
1,2,4-Trichlorobenzene	92		91		70-130	1		30
1,3,5-Trimethylbenzene	95		94		70-130	1		30
1,2,4-Trimethylbenzene	95		94		70-130	1		30
Methyl Acetate	79		74		51-146	7		30
Cyclohexane	75		74		59-142	1		30
Freon-113	72		69		50-139	4		30
Methyl cyclohexane	71		72		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
Toluene-d8	108		106		70-130
4-Bromofluorobenzene	113		109		70-130
Dibromofluoromethane	100		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Lab Number: L2047700
Project Number: Not Specified
Report Date: 11/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-04 Batch: WG1430747-3 WG1430747-4								
Methylene chloride	88		85		70-130	3		30
1,1-Dichloroethane	95		91		70-130	4		30
Chloroform	90		87		70-130	3		30
Carbon tetrachloride	88		86		70-130	2		30
1,2-Dichloropropane	94		92		70-130	2		30
Dibromochloromethane	87		85		70-130	2		30
1,1,2-Trichloroethane	94		93		70-130	1		30
Tetrachloroethene	90		88		70-130	2		30
Chlorobenzene	89		88		70-130	1		30
Trichlorofluoromethane	86		81		70-139	6		30
1,2-Dichloroethane	92		90		70-130	2		30
1,1,1-Trichloroethane	87		86		70-130	1		30
Bromodichloromethane	86		86		70-130	0		30
trans-1,3-Dichloropropene	96		94		70-130	2		30
cis-1,3-Dichloropropene	91		91		70-130	0		30
Bromoform	93		91		70-130	2		30
1,1,2,2-Tetrachloroethane	97		96		70-130	1		30
Benzene	92		90		70-130	2		30
Toluene	94		92		70-130	2		30
Ethylbenzene	93		92		70-130	1		30
Chloromethane	68		63		52-130	8		30
Bromomethane	109		106		57-147	3		30
Vinyl chloride	80		75		67-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2047700
Report Date: 11/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-04 Batch: WG1430747-3 WG1430747-4								
Chloroethane	89		84		50-151	6		30
1,1-Dichloroethene	90		85		65-135	6		30
trans-1,2-Dichloroethene	93		89		70-130	4		30
Trichloroethene	89		87		70-130	2		30
1,2-Dichlorobenzene	92		91		70-130	1		30
1,3-Dichlorobenzene	95		93		70-130	2		30
1,4-Dichlorobenzene	94		92		70-130	2		30
Methyl tert butyl ether	92		88		66-130	4		30
p/m-Xylene	92		91		70-130	1		30
o-Xylene	90		90		70-130	0		30
cis-1,2-Dichloroethene	92		89		70-130	3		30
Styrene	91		90		70-130	1		30
Dichlorodifluoromethane	59		55		30-146	7		30
Acetone	84		84		54-140	0		30
Carbon disulfide	81		78		59-130	4		30
2-Butanone	81		76		70-130	6		30
4-Methyl-2-pentanone	91		87		70-130	4		30
2-Hexanone	84		82		70-130	2		30
1,2-Dibromoethane	93		91		70-130	2		30
n-Butylbenzene	103		102		70-130	1		30
sec-Butylbenzene	100		99		70-130	1		30
tert-Butylbenzene	96		95		70-130	1		30
1,2-Dibromo-3-chloropropane	87		88		68-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Lab Number: L2047700
Project Number: Not Specified
Report Date: 11/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-04 Batch: WG1430747-3 WG1430747-4								
Isopropylbenzene	100		99		70-130	1		30
p-Isopropyltoluene	98		97		70-130	1		30
Naphthalene	90		90		70-130	0		30
n-Propylbenzene	102		100		70-130	2		30
1,2,4-Trichlorobenzene	97		97		70-130	0		30
1,3,5-Trimethylbenzene	97		96		70-130	1		30
1,2,4-Trimethylbenzene	98		96		70-130	2		30
Methyl Acetate	77		75		51-146	3		30
Cyclohexane	91		89		59-142	2		30
Freon-113	93		88		50-139	6		30
Methyl cyclohexane	93		92		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	106		105		70-130
4-Bromofluorobenzene	109		109		70-130
Dibromofluoromethane	98		100		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: I20B-LARKIN DEVELOPMENT
Lab Number: L2047700
Project Number: Not Specified
Report Date: 11/05/20

SAMPLE RESULTS

Lab ID: L2047700-01
Date Collected: 10/29/20 12:45
Client ID: PARKING LOT CIU 5 20201028
Date Received: 10/30/20
Sample Location: 922 SENECA STREET
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	10/31/20 12:19	121,2540G	RI

Project Name: I20B-LARKIN DEVELOPMENT
Lab Number: L2047700
Project Number: Not Specified
Report Date: 11/05/20

SAMPLE RESULTS

Lab ID: L2047700-02
Date Collected: 10/29/20 12:45
Client ID: PARKING LOT CIU 6 20201028
Date Received: 10/30/20
Sample Location: 922 SENECA STREET
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	10/31/20 12:19	121,2540G	RI

Project Name: I20B-LARKIN DEVELOPMENT
Lab Number: L2047700
Project Number: Not Specified
Report Date: 11/05/20

SAMPLE RESULTS

Lab ID: L2047700-03
Client ID: PARKING LOT CIU 7 20201028
Sample Location: 922 SENECA STREET
Date Collected: 10/29/20 12:45
Date Received: 10/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	10/31/20 12:19	121,2540G	RI

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2047700
Project Number: Not Specified **Report Date:** 11/05/20

SAMPLE RESULTS

Lab ID: L2047700-04 Date Collected: 10/29/20 12:45
Client ID: PARKING LOT CIU 8 20201028 Date Received: 10/30/20
Sample Location: 922 SENECA STREET Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	10/31/20 12:19	121,2540G	RI

Lab Duplicate Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT

Project Number: Not Specified

Lab Number: L2047700

Report Date: 11/05/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1428828-1 QC Sample: L2047700-01 Client ID: PARKING LOT CIU 5 20201028						
Solids, Total	87.1	87.2	%	0		20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2047700-01A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2047700-01B	Vial water preserved	A	NA		2.3	Y	Absent	31-OCT-20 05:15	NYTCL-8260HLW-R2(14)
L2047700-01C	Vial water preserved	A	NA		2.3	Y	Absent	31-OCT-20 05:15	NYTCL-8260HLW-R2(14)
L2047700-01D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L2047700-02A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2047700-02B	Vial water preserved	A	NA		2.3	Y	Absent	31-OCT-20 05:15	NYTCL-8260HLW-R2(14)
L2047700-02C	Vial water preserved	A	NA		2.3	Y	Absent	31-OCT-20 05:15	NYTCL-8260HLW-R2(14)
L2047700-02D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L2047700-03A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2047700-03B	Vial water preserved	A	NA		2.3	Y	Absent	31-OCT-20 05:15	NYTCL-8260HLW-R2(14)
L2047700-03C	Vial water preserved	A	NA		2.3	Y	Absent	31-OCT-20 05:15	NYTCL-8260HLW-R2(14)
L2047700-03D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L2047700-04A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2047700-04B	Vial water preserved	A	NA		2.3	Y	Absent	31-OCT-20 05:15	NYTCL-8260HLW-R2(14)
L2047700-04C	Vial water preserved	A	NA		2.3	Y	Absent	31-OCT-20 05:15	NYTCL-8260HLW-R2(14)
L2047700-04D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	I20B-LARKIN DEVELOPMENT	**Lab Number:**	L2047700
Project Number:	Not Specified	**Report Date:**	11/05/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Page 1 of 1

Date Rec'd in Lab: 10/31/20

ALPHA Job #: L2047700

Project Information
Project Name: I20B-Larkin Development
Project Location: 822 Seneca Street
Project #
(Use Project name as Project #) ☒
Project Manager: Brandon Quinn
ALPHAQuote #:

Turn-Around Time
Standard ☒
Rush (only if pre approved) ☐
Due Date:
# of Days:

Client Information
Client: AFI Environmental
Address: 8644 Buffalo Ave
Niagara Falls NY 14304
Phone: (716) 283-7645
Fax:
Email: on File

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other NYSDEC 3616

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	~~[illegible]~~	PFAS	Sample Specific Comments	Total Bottles
47700-01	Parking lot CIU 5 20201028	10/29/20	12:45	Soil	BQ	X	~~X~~	X		4
-02	Parking lot CIU 6 20201028	10/29/20	12:45	Soil		X	~~X~~	X		4
-03	Parking lot CIU 7 20201028	10/29/20	1245	Soil		X		X		4
-04	Parking lot CIU 8 20201028	10/29/20	1245	Soil		X		X		4

	VOCs		PFAS
Container Type	✓		P
Preservative			A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/30/20 16:20	[signature]	10/30/20 16:20
[signature]	10/30/20 16:26	[signature]	10/31/20 02:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Contained-in Determinations

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Hazardous Waste and Radiation Management
625 Broadway, 9th Floor, Albany, New York 12233-7256
P: (518) 402-8651 | F: (518) 402-9024
www.dec.ny.gov

September 3, 2020

Mr. Brandon Quinn
Geologist/Project Manager
AFI Environmental
PO Box 4049
Niagara Falls, NY 14304

RE: **REVISED** - AmeriPride Site #C915241 “Contained-in” Determination Request
NYSDEC Site No. C915241

Dear Mr. Quinn:

The New York State Department of Environmental Conservation has reviewed the analytical soil data (Lab Sample ID: 203531-01, 203531-01A, 203531-02, 203531-02A, 200731027-001, 200731027-002 and 200731027-004) submitted with your letters dated August 20, 2020 and September 2, 2020 requesting a “contained-in” determination for contaminated soils from which were encountered during the redevelopment of the above project.

Concentrations detected for individual VOCs, SVOCs, metals and PCBs were all significantly less than their current “contained-in” soil action levels, and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level.

Concentrations (Lab Sample ID: 203531-01 and 203531-02) for tetrachloroethene, cis-1,2-dichloroethene and trichloroethene were below the soil “contained-in” action level and the Land Disposal Restriction concentration. Excavated soils, approximately 150 cubic yards of material, from the redevelopment activities conducted at the site, do not have to be managed as hazardous waste and can be transported off-site to Waste Management of NY Landfill in Chaffee New York, for disposal as a solid waste.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9611 or email me at henry.wilkie@dec.ny.gov.

Sincerely,

Henry Wilkie
Assistant Environmental Engineer
RCRA Permitting Section

NEW YORK STATE | Department of Environmental Conservation 50

ec: J. Walia, DER Region 9
M. Kuczka, DER Region 9

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Hazardous Waste and Radiation Management
625 Broadway, 9th Floor, Albany, New York 12233-7256
P: (518) 402-8651 | F: (518) 402-9024
www.dec.ny.gov

December 8, 2020

Sent via e-mail, no hard copy to follow

Mr. Brandon Quinn
Senior Project Manager
AFI Environmental
PO Box 4049
Niagara Falls, NY 14304

RE: Former American Linen Supply Company Facility Site
"Contained-in" Determination Request
NYSDEC Site No. C915241

Dear Mr. Quinn:

The New York State Department of Environmental Conservation (NYSDEC or the Department) has reviewed your letter dated December 3, 2020, requesting a "contained-in" determination for a stockpile of excavated soil as part of remedial activities at Former American Linen Supply Company Facility Site.

Soil Media Evaluation

Concentrations (Sampling ID: L2047640-01, L2047640-02, L2047700-01, L2047700-02, L2047700-03 and L2047700-04) detected for individual volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and pesticides were all less than their current NYSDEC "contained in" soil action levels and Land Disposal Restriction concentrations. Most of the individual VOCs, SVOCs and pesticides were not detected above the reporting limit. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level.

Concentrations for tetrachloroethene detected in the soil samples (Sampling ID: L2047640-01, L2047640-02, L2047700-01, L2047700-02, L2047700-03 and L2047700-04) were below the soil "contained-in" action levels and Land Disposal Restriction concentrations. Therefore, the Stockpile (Sampling ID: L2047640-01, L2047640-02, L2047700-01, L2047700-02, L2047700-03 and L2047700-04), the volume of excavated soil estimated to be 350-400 cubic yards, does not have to be managed as a hazardous waste and may be transported off-site to Waste Management of NY Landfill in Chaffee New York or another permitted 360 solid waste facility able to accept this material, for disposal as non-hazardous waste.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9611 or email me at henry.wilkie@dec.ny.gov.

Sincerely,

Henry Wilkie
Assistant Environmental Engineer
RCRA Permitting Section

ec: J. Walia, DEC
M. Kuczka, DEC

Disposal Documentation

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 650975

Customer Name AFIENVIRONMENTALNIAGARAFALLS-
Ticket Date 09/04/2020
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9693489
Destination
PO
Profile 122748NY (NH SOIL)
Generator 190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC

Carrier DANS SNOWPLOW
Vehicle# 1
Container
Driver
Check#
Billing # 0004874
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound
In	09/04/2020 08:24:06	INBOUND	mbaker13	
Out	09/04/2020 08:45:10	OUTBOUND	mbaker13	

Gross	59820 lb
Tare	26760 lb
Net	33060 lb
Tons	16.53

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	16.53	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____________________ 3E5-1580

WASTE MANAGEMENT

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 650977

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	DANS SNOWPLOW
Ticket Date	09/04/2020	Vehicle#	22
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9693490		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

Volume

	Time	Scale	Operator	Inbound		
In	09/04/2020 08:30:31	INBOUND	mbaker13		Gross	51920 lb
Out	09/04/2020 08:50:46	OUTBOUND	mbaker13		Tare	26700 lb
					Net	25220 lb
					Tons	12.61

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	12.61	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____3E5-1580

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 650976

Customer Name AFIENVIRONMENTALNIAGARAFALLS-
Ticket Date 09/04/2020
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9693486
Destination
PO
Profile 122748NY (NH SOIL)
Generator 190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC

Carrier DANS SNOWPLOW
Vehicle# 2
Container
Driver
Check#
Billing # 0004874
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound
In	09/04/2020 08:27:12	INBOUND	mbaker13	
Out	09/04/2020 09:00:52	OUTBOUND	mbaker13	

Gross	66540 lb
Tare	35800 lb
Net	30740 lb
Tons	15.37

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	15.37	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____3E5-1580

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 651013

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	DANS SNOWPLOW
Ticket Date	09/04/2020	Vehicle#	1
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9693494		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

Volume

	Time	Scale	Operator	Inbound		
In	09/04/2020 10:50:43	INBOUND	mbaker13		Gross	71080 lb
Out	09/04/2020 11:15:05	OUTBOUND	mbaker13		Tare	26720 lb
					Net	44360 lb
					Tons	22.18

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	22.18	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____ 3E5-1580

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 651012

Customer Name AFIENVIRONMENTALNIAGARAFALLS-
Ticket Date 09/04/2020
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9693495
Destination
PO
Profile 122748NY (NH SOIL)
Generator 190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC

Carrier DANS SNOWPLOW
Vehicle# 2
Container
Driver
Check#
Billing # 0004874
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound
In	09/04/2020 10:49:24	INBOUND	mbaker13	
Out	09/04/2020 11:20:38	OUTBOUND	mbaker13	

Gross	78400 lb
Tare	36000 lb
Net	42400 lb
Tons	21.20

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	21.20	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____3E5-1580

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 651015

Customer Name AFIENVIRONMENTALNIAGARAFALLS-
Ticket Date 09/04/2020
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9493491
Destination
PO
Profile 122748NY (NH SOIL)
Generator 190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC

Carrier DANS SNOWPLOW
Vehicle# 22
Container
Driver
Check#
Billing # 0004874
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound
In	09/04/2020 10:55:43	INBOUND	mbaker13	
Out	09/04/2020 11:17:45	OUTBOUND	mbaker13	

Gross	63640 lb
Tare	26640 lb
Net	37000 lb
Tons	18.50

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	18.50	Tons				ERI
2	EVF-P10-Environmen	100		%				
3	RCR-P-Regulatory C	100		%				
4	LFS4-LANDFILL FIXE	100		%				

Total Fees
Total Ticket

Driver`s Signature ____ 3E5-1580

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 651048

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	DANS SNOWPLOW
Ticket Date	09/04/2020	Vehicle#	1
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9693495		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

Volume

	Time	Scale	Operator	Inbound		
In	09/04/2020 13:08:55	INBOUND	mbaker13		Gross	68900 lb
Out	09/04/2020 13:22:46	OUTBOUND	mbaker13		Tare	26560 lb
					Net	42340 lb
					Tons	21.17

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	21.17	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____3E5-1580

WASTE MANAGEMENT

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 651047

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	DANS SNOWPLOW
Ticket Date	09/04/2020	Vehicle#	22
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9693491		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

Volume

	Time	Scale	Operator	Inbound		
In	09/04/2020 13:07:50	INBOUND	mbaker13		Gross	60720 lb
Out	09/04/2020 13:32:03	OUTBOUND	mbaker13		Tare	26540 lb
					Net	34180 lb
					Tons	17.09

Comments

Product		LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	17.09	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____ 3E5-1580

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 651056

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	DANS SNOWPLOW	
Ticket Date	09/04/2020	Vehicle#	2	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0004874	
State Waste Code		Gen EPA ID	NOT REQUIRED	
Manifest	9693487			
Destination				
PO				
Profile	122748NY (NH SOIL)			
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC			

	Time	Scale	Operator	Inbound		
					Gross	82220 lb
In	09/04/2020 13:33:11	INBOUND	mbaker13		Tare	35420 lb
Out	09/04/2020 14:02:13	OUTBOUND	mbaker13		Net	46800 lb
					Tons	23.40

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	23.40	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____3E5-1580

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 651125

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	DANS SNOWPLOW		
Ticket Date	09/08/2020	Vehicle#	2	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0004874		
State Waste Code		Gen EPA ID	NOT REQUIRED		
Manifest	9693488				
Destination					
PO					
Profile	122748NY (NH SOIL)				
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC				

	Time	Scale	Operator	Inbound		
In	09/08/2020 08:34:21	INBOUND	JChapma7		Gross	75140 lb
Out	09/08/2020 08:55:42	OUTBOUND	JChapma7		Tare	35500 lb
					Net	39640 lb
					Tons	19.82

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	19.82	Tons				ERI
2	EVF-P10-Environmen	100		%				
3	RCR-P-Regulatory C	100		%				
4	LFS4-LANDFILL FIXE	100		%				

Total Fees
Total Ticket

Driver`s Signature ____ 3E5-1580

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 651168

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	DANS SNOWPLOW		
Ticket Date	09/08/2020	Vehicle#	2	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0004874		
State Waste Code		Gen EPA ID	NOT REQUIRED		
Manifest	9693496				
Destination					
PO					
Profile	122748NY (NH SOIL)				
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC				

	Time	Scale	Operator	Inbound		
In	09/08/2020 11:04:12	INBOUND	JChapma7		Gross	73000 lb
Out	09/08/2020 11:57:30	OUTBOUND	JChapma7		Tare	35720 lb
					Net	37280 lb
					Tons	18.64

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	18.64	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____________________ 3E5-1580

WASTE MANAGEMENT

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 651216

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	DANS SNOWPLOW		
Ticket Date	09/08/2020	Vehicle#	2	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0004874		
State Waste Code		Gen EPA ID	NOT REQUIRED		
Manifest	9693497				
Destination					
PO					
Profile	122748NY (NH SOIL)				
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC				

	Time	Scale	Operator	Inbound		
In	09/08/2020 14:18:38	INBOUND	JChapma7		Gross	69860 lb
Out	09/08/2020 14:46:24	OUTBOUND	JChapma7		Tare	35460 lb
					Net	34400 lb
					Tons	17.20

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	17.20	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____3E5-1580

WASTE MANAGEMENT

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661891

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/11/2020	Vehicle#	105 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963928		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

	Time	Scale	Operator	Inbound		
In	12/11/2020 08:24:19	INBOUND	JChapma7		Gross	62260 lb
Out	12/11/2020 08:44:54	OUTBOUND	JChapma7		Tare	26680 lb
					Net	35580 lb
					Tons	17.79

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	17.79	Tons				ERI
2	EVF-P10-Environmen	100		%				
3	RCR-P-Regulatory C	100		%				
4	LFS4-LANDFILL FIXE	100		%				

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661893

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/11/2020	Vehicle#	118 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963929		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

	Time	Scale	Operator	Inbound		
In	12/11/2020 08:28:58	INBOUND	JChapma7		Gross	71900 lb
Out	12/11/2020 08:50:02	OUTBOUND	JChapma7		Tare	26860 lb
					Net	45040 lb
					Tons	22.52

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	22.52	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661895

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/11/2020	Vehicle#	111
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963930		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

Volume

	Time	Scale	Operator	Inbound		
In	12/11/2020 08:39:21	INBOUND	JChapma7		Gross	71880 lb
Out	12/11/2020 08:57:26	OUTBOUND	JChapma7		Tare	28080 lb
					Net	43800 lb
					Tons	21.90

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	21.90	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661899

Customer Name AFIENVIRONMENTALNIAGARAFALLS-
Ticket Date 12/11/2020
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9963931
Destination
PO
Profile 122748NY (NH SOIL)
Generator 190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC

Carrier MALLARE MALLARE TRUCKING
Vehicle# 113
Volume
Container
Driver
Check#
Billing # 0004874
Gen EPA ID NOT REQUIRED

	Time	Scale	Operator	Inbound		
					Gross	66680 lb
In	12/11/2020 08:52:08	INBOUND	JChapma7		Tare	27960 lb
Out	12/11/2020 09:09:25	OUTBOUND	JChapma7		Net	38720 lb
					Tons	19.36

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	19.36	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____________________ OL2I4-1530

WASTE MANAGEMENT

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661928

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/11/2020	Vehicle#	105
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963932		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

Volume

	Time	Scale	Operator	Inbound		
In	12/11/2020 10:21:07	INBOUND	JChapma7		Gross	76400 lb
Out	12/11/2020 10:48:40	OUTBOUND	JChapma7		Tare	26700 lb
					Net	49700 lb
					Tons	24.85

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	24.85	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____________________ OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661929

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/11/2020	Vehicle#	118
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963933		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

Volume

	Time	Scale	Operator	Inbound		
In	12/11/2020 10:26:04	INBOUND	JChapma7		Gross	74820 lb
Out	12/11/2020 10:50:32	OUTBOUND	JChapma7		Tare	26840 lb
					Net	47980 lb
					Tons	23.99

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	23.99	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661931

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/11/2020	Vehicle#	111
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963934		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

Volume

	Time	Scale	Operator	Inbound		
					Gross	75540 lb
In	12/11/2020 10:30:42	INBOUND	JChapma7		Tare	28040 lb
Out	12/11/2020 10:51:46	OUTBOUND	JChapma7		Net	47500 lb
					Tons	23.75

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	23.75	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661936

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/11/2020	Vehicle#	113
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963935		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

Volume

	Time	Scale	Operator	Inbound		
In	12/11/2020 10:43:31	INBOUND	JChapma7		Gross	74080 lb
Out	12/11/2020 10:59:57	OUTBOUND	JChapma7		Tare	27900 lb
					Net	46180 lb
					Tons	23.09

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	23.09	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661951

Customer Name AFIENVIRONMENTALNIAGARAFALLS-
Ticket Date 12/11/2020
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9963936
Destination
PO
Profile 122748NY (NH SOIL)
Generator 190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC

Carrier MALLARE MALLARE TRUCKING
Vehicle# 106
Volume
Container
Driver
Check#
Billing # 0004874
Gen EPA ID NOT REQUIRED

	Time	Scale	Operator	Inbound		
In	12/11/2020 11:31:43	INBOUND	JChapma7		Gross	80040 lb
Out	12/11/2020 11:31:43		JChapma7		Tare	27080 lb
					Net	52960 lb
					Tons	26.48

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	26.48	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661968

Customer Name AFIENVIRONMENTALNIAGARAFALLS-
Ticket Date 12/11/2020
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 9963639
Destination
PO
Profile 122748NY (NH SOIL)
Generator 190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC

Carrier MALLARE MALLARE TRUCKING
Vehicle# 111
Volume
Container
Driver
Check#
Billing # 0004874
Gen EPA ID NOT REQUIRED

	Time	Scale	Operator	Inbound		
In	12/11/2020 12:48:18	INBOUND	JChapma7		Gross	71440 lb
Out	12/11/2020 13:05:46	OUTBOUND	JChapma7		Tare	27880 lb
					Net	43560 lb
					Tons	21.78

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	21.78	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

WASTE MANAGEMENT

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661967

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/11/2020	Vehicle#	105
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963937		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

Volume

	Time	Scale	Operator	Inbound		
					Gross	64760 lb
In	12/11/2020 12:47:39	INBOUND	JChapma7		Tare	26640 lb
Out	12/11/2020 13:08:15	OUTBOUND	JChapma7		Net	38120 lb
					Tons	19.06

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	19.06	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

WASTE MANAGEMENT

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661969

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/11/2020	Vehicle#	118 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963938		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

	Time	Scale	Operator	Inbound		
In	12/11/2020 12:49:01	INBOUND	JChapma7		Gross	67200 lb
Out	12/11/2020 13:09:26	OUTBOUND	JChapma7		Tare	26740 lb
					Net	40460 lb
					Tons	20.23

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	20.23	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 661972

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/11/2020	Vehicle#	113 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963941		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

	Time	Scale	Operator	Inbound		
In	12/11/2020 12:51:00	INBOUND	JChapma7		Gross	69560 lb
Out	12/11/2020 13:14:03	OUTBOUND	JChapma7		Tare	27700 lb
					Net	41860 lb
					Tons	20.93

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	20.93	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 662060

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/14/2020	Vehicle#	105 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963942		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

	Time	Scale	Operator	Inbound		
In	12/14/2020 08:21:13	INBOUND	JChapma7		Gross	59520 lb
Out	12/14/2020 08:44:34	OUTBOUND	JChapma7		Tare	26800 lb
					Net	32720 lb
					Tons	16.36

Comments

Product		LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	16.36	Tons				ERI
2	EVF-P10-Environmen	100		%				
3	RCR-P-Regulatory C	100		%				
4	LFS4-LANDFILL FIXE	100		%				

Total Fees
Total Ticket

Driver`s Signature ______________________________OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 662061

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/14/2020	Vehicle#	112 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963976		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

	Time	Scale	Operator	Inbound		
In	12/14/2020 08:28:23	INBOUND	JChapma7		Gross	55920 lb
Out	12/14/2020 08:47:10	OUTBOUND	JChapma7		Tare	25500 lb
					Net	30420 lb
					Tons	15.21

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	15.21	Tons				ERI
2	EVF-P10-Environmen	100		%				
3	RCR-P-Regulatory C	100		%				
4	LFS4-LANDFILL FIXE	100		%				

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

WASTE MANAGEMENT

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 662084

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/14/2020	Vehicle#	105 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963977		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

	Time	Scale	Operator	Inbound		
In	12/14/2020 10:19:08	INBOUND	JChapma7		Gross	58440 lb
Out	12/14/2020 10:47:01	OUTBOUND	JChapma7		Tare	26760 lb
					Net	31680 lb
					Tons	15.84

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	15.84	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 662092

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/14/2020	Vehicle#	112
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963943		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

Volume

	Time	Scale	Operator	Inbound		
In	12/14/2020 10:40:18	INBOUND	JChapma7		Gross	63020 lb
Out	12/14/2020 11:12:50	OUTBOUND	JChapma7		Tare	25360 lb
					Net	37660 lb
					Tons	18.83

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	18.83	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Waste Management Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Reprint
Ticket# 662120

Customer Name	AFIENVIRONMENTALNIAGARAFALLS-	Carrier	MALLARE MALLARE TRUCKING
Ticket Date	12/14/2020	Vehicle#	105 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004874
State Waste Code		Gen EPA ID	NOT REQUIRED
Manifest	9963944		
Destination			
PO			
Profile	122748NY (NH SOIL)		
Generator	190-MILLRACECOMMONS822SENECA MILL RACE COMMONS LLC		

	Time	Scale	Operator	Inbound		
In	12/14/2020 12:42:49	INBOUND	JChapma7		Gross	38660 lb
Out	12/14/2020 13:00:23	OUTBOUND	JChapma7		Tare	26660 lb
					Net	12000 lb
					Tons	6.00

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	6.00	Tons				ERI
2	EVF-P10-Environmen	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI
4	LFS4-LANDFILL FIXE	100		%				ERI

Total Fees
Total Ticket

Driver`s Signature ____OL2I4-1530

Appendix E

Remaining Contamination Laboratory Reports

ANALYTICAL REPORT

Lab Number:	L2058202
Client:	AFI Environmental 8644 Buffalo Avenue PO Box 4049 Niagara Falls, NY 14304
ATTN:	Brandon Quinn
Phone:	(716) 283-7645
Project Name:	I20B-LARKIN DEVELOPMENT
Project Number:	Not Specified
Report Date:	01/11/21

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2058202
Report Date: 01/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2058202-01	FLOOR 1 20201229	SOIL	822 SENECA STREET	12/29/20 14:20	12/30/20
L2058202-02	FLOOR 2 20201229	SOIL	822 SENECA STREET	12/29/20 14:30	12/30/20
L2058202-03	FLOOR 3 20201229	SOIL	822 SENECA STREET	12/29/20 14:40	12/30/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2058202-01 through -03: The samples have elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich Caitlin Walukevich

Title: Technical Director/Representative Date: 01/11/21

ORGANICS

VOLATILES

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202

Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-01
Client ID: FLOOR 1 20201229
Sample Location: 822 SENECA STREET

Date Collected: 12/29/20 14:20
Date Received: 12/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/08/21 13:51
Analyst: MV
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.2	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	ND		ug/kg	2.2	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.39	1
Tetrachloroethene	0.42	J	ug/kg	0.72	0.28	1
Chlorobenzene	ND		ug/kg	0.72	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.8	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	0.24	1
Bromodichloromethane	ND		ug/kg	0.72	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.72	0.23	1
Bromoform	ND		ug/kg	5.8	0.36	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.72	0.24	1
Benzene	ND		ug/kg	0.72	0.24	1
Toluene	ND		ug/kg	1.4	0.78	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.8	1.3	1
Bromomethane	ND		ug/kg	2.9	0.84	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
Chloroethane	ND		ug/kg	2.9	0.65	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1
Trichloroethene	ND		ug/kg	0.72	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	2.9	0.21	1

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-01 Date Collected: 12/29/20 14:20
Client ID: FLOOR 1 20201229 Date Received: 12/30/20
Sample Location: 822 SENECA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.9	0.29	1
p/m-Xylene	ND		ug/kg	2.9	0.81	1
o-Xylene	ND		ug/kg	1.4	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	7.0	1
Carbon disulfide	ND		ug/kg	14	6.6	1
2-Butanone	ND		ug/kg	14	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.9	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.40	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.9	0.46	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.9	0.39	1
Methyl Acetate	ND		ug/kg	5.8	1.4	1
Cyclohexane	ND		ug/kg	14	0.79	1
1,4-Dioxane	ND		ug/kg	120	51.	1
Freon-113	ND		ug/kg	5.8	1.0	1
Methyl cyclohexane	ND		ug/kg	5.8	0.87	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-02
Client ID: FLOOR 2 20201229
Sample Location: 822 SENECA STREET
Date Collected: 12/29/20 14:30
Date Received: 12/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/08/21 14:17
Analyst: MV
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	0.44	J	ug/kg	0.58	0.22	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.62	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.2	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202

Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID:	L2058202-02	Date Collected:	12/29/20 14:30
Client ID:	FLOOR 2 20201229	Date Received:	12/30/20
Sample Location:	822 SENECA STREET	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
Styrene	ND		ug/kg	1.2	0.22	1
Dichlorodifluoromethane	ND		ug/kg	12	1.0	1
Acetone	ND		ug/kg	12	5.5	1
Carbon disulfide	ND		ug/kg	12	5.2	1
2-Butanone	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
Methyl Acetate	ND		ug/kg	4.6	1.1	1
Cyclohexane	ND		ug/kg	12	0.63	1
1,4-Dioxane	ND		ug/kg	92	40.	1
Freon-113	ND		ug/kg	4.6	0.80	1
Methyl cyclohexane	ND		ug/kg	4.6	0.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-03
Client ID: FLOOR 3 20201229
Sample Location: 822 SENECA STREET
Date Collected: 12/29/20 14:40
Date Received: 12/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/11/21 11:14
Analyst: NLK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.1	1.4	1
1,1-Dichloroethane	ND		ug/kg	0.63	0.09	1
Chloroform	0.09	J	ug/kg	0.94	0.09	1
Carbon tetrachloride	ND		ug/kg	0.63	0.14	1
1,2-Dichloropropane	ND		ug/kg	0.63	0.08	1
Dibromochloromethane	ND		ug/kg	0.63	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.63	0.17	1
Tetrachloroethene	0.22	J	ug/kg	0.31	0.12	1
Chlorobenzene	ND		ug/kg	0.31	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.5	0.44	1
1,2-Dichloroethane	ND		ug/kg	0.63	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.31	0.10	1
Bromodichloromethane	ND		ug/kg	0.31	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.63	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.31	0.10	1
Bromoform	ND		ug/kg	2.5	0.15	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.31	0.10	1
Benzene	ND		ug/kg	0.31	0.10	1
Toluene	ND		ug/kg	0.63	0.34	1
Ethylbenzene	ND		ug/kg	0.63	0.09	1
Chloromethane	ND		ug/kg	2.5	0.58	1
Bromomethane	ND		ug/kg	1.2	0.36	1
Vinyl chloride	ND		ug/kg	0.63	0.21	1
Chloroethane	ND		ug/kg	1.2	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.63	0.15	1
trans-1,2-Dichloroethene	ND		ug/kg	0.94	0.09	1
Trichloroethene	ND		ug/kg	0.31	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	0.09	1

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202

Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID:	L2058202-03	Date Collected:	12/29/20 14:40
Client ID:	FLOOR 3 20201229	Date Received:	12/30/20
Sample Location:	822 SENECA STREET	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.2	0.12	1
p/m-Xylene	ND		ug/kg	1.2	0.35	1
o-Xylene	ND		ug/kg	0.63	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	0.63	0.11	1
Styrene	ND		ug/kg	0.63	0.12	1
Dichlorodifluoromethane	ND		ug/kg	6.3	0.57	1
Acetone	ND		ug/kg	6.3	3.0	1
Carbon disulfide	ND		ug/kg	6.3	2.8	1
2-Butanone	ND		ug/kg	6.3	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.3	0.80	1
2-Hexanone	ND		ug/kg	6.3	0.74	1
Bromochloromethane	ND		ug/kg	1.2	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.63	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	0.62	1
Isopropylbenzene	ND		ug/kg	0.63	0.07	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	0.17	1
Methyl Acetate	ND		ug/kg	2.5	0.60	1
Cyclohexane	ND		ug/kg	6.3	0.34	1
1,4-Dioxane	ND		ug/kg	50	22.	1
Freon-113	ND		ug/kg	2.5	0.43	1
Methyl cyclohexane	ND		ug/kg	2.5	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/08/21 08:13
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1453513-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.17	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.81	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name:	I20B-LARKIN DEVELOPMENT	**Lab Number:**	L2058202
Project Number:	Not Specified	**Report Date:**	01/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/08/21 08:13
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1453513-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/08/21 08:13
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1453513-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/11/21 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1453666-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.19	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.83	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/11/21 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1453666-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/11/21 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1453666-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1453513-3 WG1453513-4								
Methylene chloride	104		101		70-130	3		30
1,1-Dichloroethane	109		105		70-130	4		30
Chloroform	108		104		70-130	4		30
Carbon tetrachloride	107		106		70-130	1		30
1,2-Dichloropropane	103		102		70-130	1		30
Dibromochloromethane	103		101		70-130	2		30
1,1,2-Trichloroethane	98		94		70-130	4		30
Tetrachloroethene	108		106		70-130	2		30
Chlorobenzene	104		101		70-130	3		30
Trichlorofluoromethane	**59**	Q	**57**	Q	70-139	3		30
1,2-Dichloroethane	105		101		70-130	4		30
1,1,1-Trichloroethane	103		100		70-130	3		30
Bromodichloromethane	95		94		70-130	1		30
trans-1,3-Dichloropropene	104		101		70-130	3		30
cis-1,3-Dichloropropene	104		101		70-130	3		30
Bromoform	94		97		70-130	3		30
1,1,2,2-Tetrachloroethane	97		97		70-130	0		30
Benzene	105		102		70-130	3		30
Toluene	104		102		70-130	2		30
Ethylbenzene	103		101		70-130	2		30
Chloromethane	90		87		52-130	3		30
Bromomethane	76		73		57-147	4		30
Vinyl chloride	**59**	Q	**56**	Q	67-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2058202
Report Date: 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1453513-3 WG1453513-4								
Chloroethane	**47**	Q	**49**	Q	50-151	4		30
1,1-Dichloroethene	111		108		65-135	3		30
trans-1,2-Dichloroethene	110		107		70-130	3		30
Trichloroethene	103		101		70-130	2		30
1,2-Dichlorobenzene	104		99		70-130	5		30
1,3-Dichlorobenzene	104		103		70-130	1		30
1,4-Dichlorobenzene	105		102		70-130	3		30
Methyl tert butyl ether	109		104		66-130	5		30
p/m-Xylene	101		99		70-130	2		30
o-Xylene	94		98		70-130	4		30
cis-1,2-Dichloroethene	107		104		70-130	3		30
Styrene	93		94		70-130	1		30
Dichlorodifluoromethane	73		71		30-146	3		30
Acetone	109		97		54-140	12		30
Carbon disulfide	106		102		59-130	4		30
2-Butanone	100		89		70-130	12		30
4-Methyl-2-pentanone	92		88		70-130	4		30
2-Hexanone	82		76		70-130	8		30
Bromochloromethane	110		107		70-130	3		30
1,2-Dibromoethane	104		101		70-130	3		30
1,2-Dibromo-3-chloropropane	100		96		68-130	4		30
Isopropylbenzene	102		104		70-130	2		30
1,2,3-Trichlorobenzene	107		104		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Lab Number: L2058202
Project Number: Not Specified
Report Date: 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1453513-3 WG1453513-4								
1,2,4-Trichlorobenzene	106		105		70-130	1		30
Methyl Acetate	106		96		51-146	10		30
Cyclohexane	100		98		59-142	2		30
1,4-Dioxane	117		110		65-136	6		30
Freon-113	114		110		50-139	4		30
Methyl cyclohexane	99		96		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		94		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	101		106		70-130
Dibromofluoromethane	98		97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1453666-3 WG1453666-4								
Methylene chloride	97		95		70-130	2		30
1,1-Dichloroethane	99		97		70-130	2		30
Chloroform	100		102		70-130	2		30
Carbon tetrachloride	101		99		70-130	2		30
1,2-Dichloropropane	95		94		70-130	1		30
Dibromochloromethane	94		94		70-130	0		30
1,1,2-Trichloroethane	86		87		70-130	1		30
Tetrachloroethene	102		100		70-130	2		30
Chlorobenzene	96		95		70-130	1		30
Trichlorofluoromethane	**57**	Q	**56**	Q	70-139	2		30
1,2-Dichloroethane	94		92		70-130	2		30
1,1,1-Trichloroethane	95		94		70-130	1		30
Bromodichloromethane	88		87		70-130	1		30
trans-1,3-Dichloropropene	95		95		70-130	0		30
cis-1,3-Dichloropropene	96		96		70-130	0		30
Bromoform	89		86		70-130	3		30
1,1,2,2-Tetrachloroethane	84		82		70-130	2		30
Benzene	96		95		70-130	1		30
Toluene	96		95		70-130	1		30
Ethylbenzene	94		93		70-130	1		30
Chloromethane	74		71		52-130	4		30
Bromomethane	76		72		57-147	5		30
Vinyl chloride	**55**	Q	**53**	Q	67-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2058202
Report Date: 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1453666-3 WG1453666-4								
Chloroethane	**49**	Q	**48**	Q	50-151	2		30
1,1-Dichloroethene	106		103		65-135	3		30
trans-1,2-Dichloroethene	103		101		70-130	2		30
Trichloroethene	96		95		70-130	1		30
1,2-Dichlorobenzene	96		93		70-130	3		30
1,3-Dichlorobenzene	96		94		70-130	2		30
1,4-Dichlorobenzene	96		94		70-130	2		30
Methyl tert butyl ether	100		99		66-130	1		30
p/m-Xylene	93		92		70-130	1		30
o-Xylene	92		91		70-130	1		30
cis-1,2-Dichloroethene	100		98		70-130	2		30
Styrene	88		88		70-130	0		30
Dichlorodifluoromethane	58		56		30-146	4		30
Acetone	94		90		54-140	4		30
Carbon disulfide	98		96		59-130	2		30
2-Butanone	84		84		70-130	0		30
4-Methyl-2-pentanone	79		77		70-130	3		30
2-Hexanone	**69**	Q	**68**	Q	70-130	1		30
Bromochloromethane	104		101		70-130	3		30
1,2-Dibromoethane	94		93		70-130	1		30
1,2-Dibromo-3-chloropropane	88		90		68-130	2		30
Isopropylbenzene	94		92		70-130	2		30
1,2,3-Trichlorobenzene	100		96		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Lab Number: L2058202
Project Number: Not Specified
Report Date: 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1453666-3 WG1453666-4								
1,2,4-Trichlorobenzene	102		98		70-130	4		30
Methyl Acetate	88		88		51-146	0		30
Cyclohexane	90		90		59-142	0		30
1,4-Dioxane	102		96		65-136	6		30
Freon-113	108		105		50-139	3		30
Methyl cyclohexane	92		90		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		90		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	103		100		70-130
Dibromofluoromethane	98		98		70-130

SEMIVOLATILES

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202

Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-01
Client ID: FLOOR 1 20201229
Sample Location: 822 SENECA STREET

Date Collected: 12/29/20 14:20
Date Received: 12/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/04/21 17:15
Analyst: EK
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 01/03/21 15:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	490		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	6500		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	120	J	ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	2900		ug/kg	120	23.	1
Benzo(a)pyrene	2100		ug/kg	160	49.	1

Project Name:	I20B-LARKIN DEVELOPMENT	**Lab Number:**	L2058202
Project Number:	Not Specified	**Report Date:**	01/11/21

SAMPLE RESULTS

Lab ID:	L2058202-01	Date Collected:	12/29/20 14:20
Client ID:	FLOOR 1 20201229	Date Received:	12/30/20
Sample Location:	822 SENECA STREET	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	2800		ug/kg	120	34.	1
Benzo(k)fluoranthene	900		ug/kg	120	32.	1
Chrysene	2400		ug/kg	120	21.	1
Acenaphthylene	140	J	ug/kg	160	31.	1
Anthracene	1000		ug/kg	120	39.	1
Benzo(ghi)perylene	1200		ug/kg	160	24.	1
Fluorene	550		ug/kg	200	20.	1
Phenanthrene	4500		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	310		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	1500		ug/kg	160	28.	1
Pyrene	5200		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	270		ug/kg	200	19.	1
2-Methylnaphthalene	120	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Carbazole	600		ug/kg	200	20.	1
Atrazine	ND		ug/kg	160	71.	1
Benzaldehyde	58	J	ug/kg	270	54.	1

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202

Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID:	L2058202-01	Date Collected:	12/29/20 14:20
Client ID:	FLOOR 1 20201229	Date Received:	12/30/20
Sample Location:	822 SENECA STREET	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	61.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	70		18-120

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-02
Client ID: FLOOR 2 20201229
Sample Location: 822 SENECA STREET

Date Collected: 12/29/20 14:30
Date Received: 12/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/04/21 17:40
Analyst: EK
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 01/03/21 15:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	420		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	6800		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	150	J	ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	2800		ug/kg	120	23.	1
Benzo(a)pyrene	2200		ug/kg	160	49.	1

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202

Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-02 Date Collected: 12/29/20 14:30

Client ID: FLOOR 2 20201229 Date Received: 12/30/20

Sample Location: 822 SENECA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	3100		ug/kg	120	34.	1
Benzo(k)fluoranthene	810		ug/kg	120	32.	1
Chrysene	2300		ug/kg	120	21.	1
Acenaphthylene	160		ug/kg	160	31.	1
Anthracene	910		ug/kg	120	40.	1
Benzo(ghi)perylene	1400		ug/kg	160	24.	1
Fluorene	490		ug/kg	200	20.	1
Phenanthrene	4400		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	340		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	1700		ug/kg	160	28.	1
Pyrene	5100		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	270		ug/kg	200	19.	1
2-Methylnaphthalene	130	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Carbazole	570		ug/kg	200	20.	1
Atrazine	ND		ug/kg	160	71.	1
Benzaldehyde	ND		ug/kg	270	55.	1

Project Name:	I20B-LARKIN DEVELOPMENT	**Lab Number:**	L2058202
Project Number:	Not Specified	**Report Date:**	01/11/21

SAMPLE RESULTS

Lab ID:	L2058202-02	Date Collected:	12/29/20 14:30
Client ID:	FLOOR 2 20201229	Date Received:	12/30/20
Sample Location:	822 SENECA STREET	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	120	J	ug/kg	200	62.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	63		18-120

Project Name: I20B-LARKIN DEVELOPMENT | **Lab Number:** L2058202
Project Number: Not Specified | **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-03
Client ID: FLOOR 3 20201229
Sample Location: 822 SENECA STREET

Date Collected: 12/29/20 14:40
Date Received: 12/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/04/21 18:06
Analyst: EK
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 01/03/21 15:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	290		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	4000		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	84	J	ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	1900		ug/kg	120	23.	1
Benzo(a)pyrene	1500		ug/kg	160	50.	1

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202

Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-03 Date Collected: 12/29/20 14:40

Client ID: FLOOR 3 20201229 Date Received: 12/30/20

Sample Location: 822 SENECA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	2100		ug/kg	120	34.	1
Benzo(k)fluoranthene	560		ug/kg	120	33.	1
Chrysene	1600		ug/kg	120	21.	1
Acenaphthylene	100	J	ug/kg	160	32.	1
Anthracene	640		ug/kg	120	40.	1
Benzo(ghi)perylene	770		ug/kg	160	24.	1
Fluorene	350		ug/kg	200	20.	1
Phenanthrene	2900		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	240		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	1200		ug/kg	160	29.	1
Pyrene	3200		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	180	J	ug/kg	200	19.	1
2-Methylnaphthalene	76	J	ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	980	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Carbazole	410		ug/kg	200	20.	1
Atrazine	ND		ug/kg	160	72.	1
Benzaldehyde	ND		ug/kg	270	55.	1

Project Name:	I20B-LARKIN DEVELOPMENT	**Lab Number:**	L2058202
Project Number:	Not Specified	**Report Date:**	01/11/21

SAMPLE RESULTS

Lab ID:	L2058202-03	Date Collected:	12/29/20 14:40
Client ID:	FLOOR 3 20201229	Date Received:	12/30/20
Sample Location:	822 SENECA STREET	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	62.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	41.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	56		18-120

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/04/21 11:39
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 01/03/21 15:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1451098-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.

Project Name: I20B-LARKIN DEVELOPMENT | **Lab Number:** L2058202
Project Number: Not Specified | **Report Date:** 01/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/04/21 11:39
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 01/03/21 15:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1451098-1					
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/04/21 11:39
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 01/03/21 15:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1451098-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	34.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	74		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Lab Number: L2058202
Project Number: Not Specified
Report Date: 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1451098-2 WG1451098-3								
Acenaphthene	66		70		31-137	6		50
Hexachlorobenzene	68		73		40-140	7		50
Bis(2-chloroethyl)ether	58		62		40-140	7		50
2-Chloronaphthalene	66		72		40-140	9		50
3,3'-Dichlorobenzidine	55		57		40-140	4		50
2,4-Dinitrotoluene	72		78		40-132	8		50
2,6-Dinitrotoluene	74		80		40-140	8		50
Fluoranthene	70		76		40-140	8		50
4-Chlorophenyl phenyl ether	67		72		40-140	7		50
4-Bromophenyl phenyl ether	67		73		40-140	9		50
Bis(2-chloroisopropyl)ether	55		61		40-140	10		50
Bis(2-chloroethoxy)methane	63		69		40-117	9		50
Hexachlorobutadiene	60		65		40-140	8		50
Hexachlorocyclopentadiene	56		63		40-140	12		50
Hexachloroethane	58		62		40-140	7		50
Isophorone	62		67		40-140	8		50
Naphthalene	61		67		40-140	9		50
Nitrobenzene	60		66		40-140	10		50
NDPA/DPA	68		73		36-157	7		50
n-Nitrosodi-n-propylamine	60		67		32-121	11		50
Bis(2-ethylhexyl)phthalate	69		74		40-140	7		50
Butyl benzyl phthalate	75		79		40-140	5		50
Di-n-butylphthalate	69		74		40-140	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2058202
Report Date: 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1451098-2 WG1451098-3								
Di-n-octylphthalate	74		78		40-140	5		50
Diethyl phthalate	68		73		40-140	7		50
Dimethyl phthalate	71		77		40-140	8		50
Benzo(a)anthracene	67		72		40-140	7		50
Benzo(a)pyrene	71		75		40-140	5		50
Benzo(b)fluoranthene	70		75		40-140	7		50
Benzo(k)fluoranthene	70		73		40-140	4		50
Chrysene	67		71		40-140	6		50
Acenaphthylene	70		75		40-140	7		50
Anthracene	68		72		40-140	6		50
Benzo(ghi)perylene	70		75		40-140	7		50
Fluorene	69		72		40-140	4		50
Phenanthrene	70		74		40-140	6		50
Dibenzo(a,h)anthracene	68		74		40-140	8		50
Indeno(1,2,3-cd)pyrene	70		74		40-140	6		50
Pyrene	70		75		35-142	7		50
Biphenyl	70		77		37-127	10		50
4-Chloroaniline	52		57		40-140	9		50
2-Nitroaniline	76		85		47-134	11		50
3-Nitroaniline	62		63		26-129	2		50
4-Nitroaniline	67		72		41-125	7		50
Dibenzofuran	66		72		40-140	9		50
2-Methylnaphthalene	65		70		40-140	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2058202
Report Date: 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1451098-2 WG1451098-3								
1,2,4,5-Tetrachlorobenzene	70		76		40-117	8		50
Acetophenone	65		72		14-144	10		50
2,4,6-Trichlorophenol	72		78		30-130	8		50
p-Chloro-m-cresol	72		78		26-103	8		50
2-Chlorophenol	64		71		25-102	10		50
2,4-Dichlorophenol	70		78		30-130	11		50
2,4-Dimethylphenol	69		76		30-130	10		50
2-Nitrophenol	69		73		30-130	6		50
4-Nitrophenol	78		81		11-114	4		50
2,4-Dinitrophenol	76		85		4-130	11		50
4,6-Dinitro-o-cresol	82		91		10-130	10		50
Pentachlorophenol	74		80		17-109	8		50
Phenol	60		65		26-90	8		50
2-Methylphenol	67		74		30-130.	10		50
3-Methylphenol/4-Methylphenol	67		73		30-130	9		50
2,4,5-Trichlorophenol	76		81		30-130	6		50
Carbazole	70		74		54-128	6		50
Atrazine	84		91		40-140	8		50
Benzaldehyde	58		63		40-140	8		50
Caprolactam	79		85		15-130	7		50
2,3,4,6-Tetrachlorophenol	74		78		40-140	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Lab Number: L2058202
Project Number: Not Specified
Report Date: 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1451098-2 WG1451098-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		71		25-120
Phenol-d6	67		74		10-120
Nitrobenzene-d5	62		68		23-120
2-Fluorobiphenyl	69		73		30-120
2,4,6-Tribromophenol	70		75		10-136
4-Terphenyl-d14	71		74		18-120

PCBS

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID:	L2058202-01	Date Collected:	12/29/20 14:20
Client ID:	FLOOR 1 20201229	Date Received:	12/30/20
Sample Location:	822 SENECA STREET	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	01/03/21 17:01
Analytical Date:	01/05/21 00:01	Cleanup Method:	EPA 3665A
Analyst:	AD	Cleanup Date:	01/04/21
Percent Solids:	82%	Cleanup Method:	EPA 3660B
		Cleanup Date:	01/04/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.6	3.52	1	A
Aroclor 1221	ND		ug/kg	39.6	3.97	1	A
Aroclor 1232	ND		ug/kg	39.6	8.40	1	A
Aroclor 1242	ND		ug/kg	39.6	5.34	1	A
Aroclor 1248	ND		ug/kg	39.6	5.95	1	A
Aroclor 1254	191		ug/kg	39.6	4.34	1	B
Aroclor 1260	ND		ug/kg	39.6	7.33	1	A
Aroclor 1262	ND		ug/kg	39.6	5.03	1	A
Aroclor 1268	ND		ug/kg	39.6	4.11	1	A
PCBs, Total	191		ug/kg	39.6	3.52	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name:	I20B-LARKIN DEVELOPMENT	**Lab Number:**	L2058202
Project Number:	Not Specified	**Report Date:**	01/11/21

SAMPLE RESULTS

Lab ID:	L2058202-02	Date Collected:	12/29/20 14:30
Client ID:	FLOOR 2 20201229	Date Received:	12/30/20
Sample Location:	822 SENECA STREET	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	01/03/21 17:01
Analytical Date:	01/05/21 00:08	Cleanup Method:	EPA 3665A
Analyst:	AD	Cleanup Date:	01/04/21
Percent Solids:	82%	Cleanup Method:	EPA 3660B
		Cleanup Date:	01/04/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.8	3.54	1	A
Aroclor 1221	ND		ug/kg	39.8	3.99	1	A
Aroclor 1232	ND		ug/kg	39.8	8.45	1	A
Aroclor 1242	ND		ug/kg	39.8	5.37	1	A
Aroclor 1248	ND		ug/kg	39.8	5.98	1	A
Aroclor 1254	106		ug/kg	39.8	4.36	1	B
Aroclor 1260	ND		ug/kg	39.8	7.36	1	A
Aroclor 1262	ND		ug/kg	39.8	5.06	1	A
Aroclor 1268	ND		ug/kg	39.8	4.13	1	A
PCBs, Total	106		ug/kg	39.8	3.54	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202

Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-03
Client ID: FLOOR 3 20201229
Sample Location: 822 SENECA STREET

Date Collected: 12/29/20 14:40
Date Received: 12/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 01/05/21 00:14
Analyst: AD
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 01/03/21 17:01
Cleanup Method: EPA 3665A
Cleanup Date: 01/04/21
Cleanup Method: EPA 3660B
Cleanup Date: 01/04/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.3	3.66	1	A
Aroclor 1221	ND		ug/kg	41.3	4.14	1	A
Aroclor 1232	ND		ug/kg	41.3	8.75	1	A
Aroclor 1242	ND		ug/kg	41.3	5.56	1	A
Aroclor 1248	ND		ug/kg	41.3	6.19	1	A
Aroclor 1254	127		ug/kg	41.3	4.51	1	B
Aroclor 1260	ND		ug/kg	41.3	7.63	1	A
Aroclor 1262	ND		ug/kg	41.3	5.24	1	A
Aroclor 1268	ND		ug/kg	41.3	4.28	1	A
PCBs, Total	127		ug/kg	41.3	3.66	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method:	1,8082A	Extraction Method:	EPA 3546
Analytical Date:	01/04/21 22:37	Extraction Date:	01/03/21 17:01
Analyst:	JM	Cleanup Method:	EPA 3665A
		Cleanup Date:	01/04/21
		Cleanup Method:	EPA 3660B
		Cleanup Date:	01/04/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1451103-1						
Aroclor 1016	ND		ug/kg	32.2	2.86	A
Aroclor 1221	ND		ug/kg	32.2	3.23	A
Aroclor 1232	ND		ug/kg	32.2	6.82	A
Aroclor 1242	ND		ug/kg	32.2	4.34	A
Aroclor 1248	ND		ug/kg	32.2	4.83	A
Aroclor 1254	ND		ug/kg	32.2	3.52	A
Aroclor 1260	ND		ug/kg	32.2	5.95	A
Aroclor 1262	ND		ug/kg	32.2	4.09	A
Aroclor 1268	ND		ug/kg	32.2	3.34	A
PCBs, Total	ND		ug/kg	32.2	2.86	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	54		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT

Project Number: Not Specified

Lab Number: L2058202

Report Date: 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1451103-2 WG1451103-3									
Aroclor 1016	56		70		40-140	22		50	A
Aroclor 1260	54		69		40-140	24		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		54		30-150	A
Decachlorobiphenyl	47		52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		65		30-150	B
Decachlorobiphenyl	46		51		30-150	B

METALS

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-01 Date Collected: 12/29/20 14:20
Client ID: FLOOR 1 20201229 Date Received: 12/30/20
Sample Location: 822 SENECA STREET Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6630		mg/kg	9.45	2.55	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Antimony, Total	1.27	J	mg/kg	4.72	0.359	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Arsenic, Total	10.3		mg/kg	0.945	0.196	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Barium, Total	208		mg/kg	0.945	0.164	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Beryllium, Total	0.539		mg/kg	0.472	0.031	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Cadmium, Total	1.10		mg/kg	0.945	0.093	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Calcium, Total	16700		mg/kg	9.45	3.31	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Chromium, Total	14.5		mg/kg	0.945	0.091	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Cobalt, Total	7.98		mg/kg	1.89	0.157	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Copper, Total	43.4		mg/kg	0.945	0.244	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Iron, Total	26800		mg/kg	4.72	0.853	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Lead, Total	264		mg/kg	4.72	0.253	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Magnesium, Total	2360		mg/kg	9.45	1.46	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Manganese, Total	279		mg/kg	0.945	0.150	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Mercury, Total	2.56		mg/kg	0.092	0.060	1	01/06/21 01:00	01/06/21 23:20	EPA 7471B	1,7471B	EW
Nickel, Total	18.2		mg/kg	2.36	0.229	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Potassium, Total	842		mg/kg	236	13.6	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Selenium, Total	1.06	J	mg/kg	1.89	0.244	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.945	0.267	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Sodium, Total	92.6	J	mg/kg	189	2.98	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.89	0.298	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Vanadium, Total	17.5		mg/kg	0.945	0.192	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS
Zinc, Total	168		mg/kg	4.72	0.277	2	01/06/21 00:50	01/11/21 13:34	EPA 3050B	1,6010D	PS

Project Name:	I20B-LARKIN DEVELOPMENT	**Lab Number:**	L2058202
Project Number:	Not Specified	**Report Date:**	01/11/21

SAMPLE RESULTS

Lab ID:	L2058202-02	Date Collected:	12/29/20 14:30
Client ID:	FLOOR 2 20201229	Date Received:	12/30/20
Sample Location:	822 SENECA STREET	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5800		mg/kg	9.26	2.50	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Antimony, Total	1.74	J	mg/kg	4.63	0.352	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Arsenic, Total	9.24		mg/kg	0.926	0.192	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Barium, Total	145		mg/kg	0.926	0.161	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Beryllium, Total	0.444	J	mg/kg	0.463	0.031	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Cadmium, Total	1.01		mg/kg	0.926	0.091	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Calcium, Total	50300		mg/kg	9.26	3.24	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Chromium, Total	12.4		mg/kg	0.926	0.089	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Cobalt, Total	5.74		mg/kg	1.85	0.154	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Copper, Total	40.2		mg/kg	0.926	0.239	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Iron, Total	20800		mg/kg	4.63	0.836	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Lead, Total	232		mg/kg	4.63	0.248	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Magnesium, Total	6450		mg/kg	9.26	1.42	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Manganese, Total	273		mg/kg	0.926	0.147	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Mercury, Total	1.56		mg/kg	0.085	0.056	1	01/06/21 01:00	01/06/21 23:23	EPA 7471B	1,7471B	EW
Nickel, Total	12.8		mg/kg	2.31	0.224	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Potassium, Total	721		mg/kg	231	13.3	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Selenium, Total	1.42	J	mg/kg	1.85	0.239	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.926	0.262	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Sodium, Total	105	J	mg/kg	185	2.92	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.85	0.292	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Vanadium, Total	14.8		mg/kg	0.926	0.188	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS
Zinc, Total	162		mg/kg	4.63	0.271	2	01/06/21 00:50	01/11/21 13:38	EPA 3050B	1,6010D	PS

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-03
Client ID: FLOOR 3 20201229
Sample Location: 822 SENECA STREET
Date Collected: 12/29/20 14:40
Date Received: 12/30/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9120		mg/kg	9.48	2.56	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Antimony, Total	0.986	J	mg/kg	4.74	0.360	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Arsenic, Total	7.36		mg/kg	0.948	0.197	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Barium, Total	114		mg/kg	0.948	0.165	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Beryllium, Total	0.531		mg/kg	0.474	0.031	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Cadmium, Total	0.825	J	mg/kg	0.948	0.093	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Calcium, Total	33500		mg/kg	9.48	3.32	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Chromium, Total	19.7		mg/kg	0.948	0.091	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Cobalt, Total	6.07		mg/kg	1.90	0.157	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Copper, Total	51.1		mg/kg	0.948	0.245	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Iron, Total	18100		mg/kg	4.74	0.856	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Lead, Total	139		mg/kg	4.74	0.254	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Magnesium, Total	6840		mg/kg	9.48	1.46	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Manganese, Total	340		mg/kg	0.948	0.151	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Mercury, Total	0.294		mg/kg	0.10	0.065	1	01/06/21 01:00	01/06/21 23:26	EPA 7471B	1,7471B	EW
Nickel, Total	15.1		mg/kg	2.37	0.229	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Potassium, Total	896		mg/kg	237	13.6	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Selenium, Total	0.977	J	mg/kg	1.90	0.245	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.948	0.268	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Sodium, Total	91.2	J	mg/kg	190	2.99	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.90	0.299	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Vanadium, Total	18.8		mg/kg	0.948	0.192	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS
Zinc, Total	145		mg/kg	4.74	0.278	2	01/06/21 00:50	01/11/21 13:43	EPA 3050B	1,6010D	PS

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1451925-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Antimony, Total	ND		mg/kg	2.00	0.152	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Arsenic, Total	ND		mg/kg	0.400	0.083	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Barium, Total	ND		mg/kg	0.400	0.070	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Beryllium, Total	ND		mg/kg	0.200	0.013	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Cadmium, Total	ND		mg/kg	0.400	0.039	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Calcium, Total	ND		mg/kg	4.00	1.40	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Chromium, Total	0.124	J	mg/kg	0.400	0.038	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Cobalt, Total	ND		mg/kg	0.800	0.066	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Copper, Total	ND		mg/kg	0.400	0.103	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Iron, Total	0.680	J	mg/kg	2.00	0.361	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Magnesium, Total	ND		mg/kg	4.00	0.616	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Manganese, Total	ND		mg/kg	0.400	0.064	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Nickel, Total	ND		mg/kg	1.00	0.097	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Potassium, Total	ND		mg/kg	100	5.76	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Selenium, Total	ND		mg/kg	0.800	0.103	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Silver, Total	ND		mg/kg	0.400	0.113	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Sodium, Total	ND		mg/kg	80.0	1.26	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Thallium, Total	ND		mg/kg	0.800	0.126	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Vanadium, Total	ND		mg/kg	0.400	0.081	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS
Zinc, Total	ND		mg/kg	2.00	0.117	1	01/06/21 00:50	01/11/21 12:20	1,6010D	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1451926-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	01/06/21 01:00	01/06/21 22:30	1,7471B	EW

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1451925-2 SRM Lot Number: D109-540								
Aluminum, Total	82		-		50-150	-		
Antimony, Total	132		-		19-250	-		
Arsenic, Total	108		-		70-130	-		
Barium, Total	105		-		75-125	-		
Beryllium, Total	112		-		75-125	-		
Cadmium, Total	97		-		75-125	-		
Calcium, Total	109		-		73-128	-		
Chromium, Total	105		-		70-130	-		
Cobalt, Total	99		-		75-125	-		
Copper, Total	100		-		75-125	-		
Iron, Total	120		-		35-165	-		
Lead, Total	100		-		72-128	-		
Magnesium, Total	95		-		62-138	-		
Manganese, Total	108		-		74-126	-		
Nickel, Total	102		-		70-130	-		
Potassium, Total	98		-		59-141	-		
Selenium, Total	106		-		68-132	-		
Silver, Total	111		-		68-131	-		
Sodium, Total	94		-		35-165	-		
Thallium, Total	101		-		68-131	-		
Vanadium, Total	110		-		59-141	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Lab Number: L2058202
Project Number: Not Specified
Report Date: 01/11/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1451925-2 SRM Lot Number: D109-540					
Zinc, Total	101	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1451926-2 SRM Lot Number: D109-540					
Mercury, Total	94	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified
Lab Number: L2058202
Report Date: 01/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1451925-3 QC Sample: L2058192-01 Client ID: MS Sample												
Aluminum, Total	1910	401	2590	**170**	Q	-	-		75-125	-		20
Antimony, Total	ND	100	95.7	96		-	-		75-125	-		20
Arsenic, Total	1.31J	24	27.0	112		-	-		75-125	-		20
Barium, Total	63.7	401	456	98		-	-		75-125	-		20
Beryllium, Total	0.156J	10	10.7	107		-	-		75-125	-		20
Cadmium, Total	0.507J	10.2	10.2	100		-	-		75-125	-		20
Calcium, Total	43100	2000	55800	**634**	Q	-	-		75-125	-		20
Chromium, Total	4.06	40.1	40.8	92		-	-		75-125	-		20
Cobalt, Total	1.77J	100	93.4	93		-	-		75-125	-		20
Copper, Total	14.9	50.1	62.7	95		-	-		75-125	-		20
Iron, Total	4950	200	5420	**234**	Q	-	-		75-125	-		20
Lead, Total	8.71J	102	106	104		-	-		75-125	-		20
Magnesium, Total	7950	2000	14000	**302**	Q	-	-		75-125	-		20
Manganese, Total	284	100	365	81		-	-		75-125	-		20
Nickel, Total	4.27J	100	91.7	92		-	-		75-125	-		20
Potassium, Total	2720	2000	4870	107		-	-		75-125	-		20
Selenium, Total	1.72J	24	27.6	115		-	-		75-125	-		20
Silver, Total	ND	60.1	65.1	108		-	-		75-125	-		20
Sodium, Total	254J	2000	2640	**132**	Q	-	-		75-125	-		20
Thallium, Total	ND	24	20.6	86		-	-		75-125	-		20
Vanadium, Total	3.92	100	100	96		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2058202
Report Date: 01/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1451925-3 QC Sample: L2058192-01 Client ID: MS Sample									
Zinc, Total	47.3	100	140	92	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1451926-3 QC Sample: L2058192-01 Client ID: MS Sample									
Mercury, Total	ND	0.34	0.343	101	-	-	80-120	-	20

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2058202
Report Date: 01/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1451925-4 QC Sample: L2058192-01 Client ID: DUP Sample						
Aluminum, Total	1910	1860	mg/kg	3		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	1.31J	1.52J	mg/kg	NC		20
Barium, Total	63.7	52.4	mg/kg	19		20
Beryllium, Total	0.156J	0.142J	mg/kg	NC		20
Cadmium, Total	0.507J	0.486J	mg/kg	NC		20
Calcium, Total	43100	61700	mg/kg	**35**	Q	20
Chromium, Total	4.06	4.02	mg/kg	1		20
Cobalt, Total	1.77J	1.82J	mg/kg	NC		20
Copper, Total	14.9	12.8	mg/kg	15		20
Iron, Total	4950	4990	mg/kg	1		20
Lead, Total	8.71J	8.56J	mg/kg	NC		20
Magnesium, Total	7950	12300	mg/kg	**43**	Q	20
Manganese, Total	284	260	mg/kg	9		20
Nickel, Total	4.27J	4.25J	mg/kg	NC		20
Potassium, Total	2720	2550	mg/kg	6		20
Selenium, Total	1.72J	1.82J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	254J	240J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2058202
Report Date: 01/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1451925-4 QC Sample: L2058192-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	3.92	4.05	mg/kg	3	20
Zinc, Total	47.3	41.2	mg/kg	14	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1451926-4 QC Sample: L2058192-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-01 Date Collected: 12/29/20 14:20
Client ID: FLOOR 1 20201229 Date Received: 12/30/20
Sample Location: 822 SENECA STREET Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.9		%	0.100	NA	1	-	12/31/20 10:31	121,2540G	RI

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-02 Date Collected: 12/29/20 14:30
Client ID: FLOOR 2 20201229 Date Received: 12/30/20
Sample Location: 822 SENECA STREET Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.9		%	0.100	NA	1	-	12/31/20 10:31	121,2540G	RI

Project Name: I20B-LARKIN DEVELOPMENT **Lab Number:** L2058202
Project Number: Not Specified **Report Date:** 01/11/21

SAMPLE RESULTS

Lab ID: L2058202-03 Date Collected: 12/29/20 14:40
Client ID: FLOOR 3 20201229 Date Received: 12/30/20
Sample Location: 822 SENECA STREET Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.5		%	0.100	NA	1	-	12/31/20 10:31	121,2540G	RI

Lab Duplicate Analysis
Batch Quality Control

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2058202
Report Date: 01/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1450641-1 QC Sample: L2058190-01 Client ID: DUP Sample						
Solids, Total	80.1	79.9	%	0		20

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2058202
Report Date: 01/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2058202-01A	Vial MeOH preserved	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2058202-01B	Vial water preserved	C	NA		2.1	Y	Absent	31-DEC-20 05:27	NYTCL-8260HLW-R2(14)
L2058202-01C	Vial water preserved	C	NA		2.1	Y	Absent	31-DEC-20 05:27	NYTCL-8260HLW-R2(14)
L2058202-01D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)
L2058202-01E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2058202-01F	Glass 250ml/8oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L2058202-02A	Vial MeOH preserved	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2058202-02B	Vial water preserved	C	NA		2.1	Y	Absent	31-DEC-20 05:27	NYTCL-8260HLW-R2(14)
L2058202-02C	Vial water preserved	C	NA		2.1	Y	Absent	31-DEC-20 05:27	NYTCL-8260HLW-R2(14)
L2058202-02D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)
L2058202-02E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2058202-02F	Glass 250ml/8oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L2058202-03A	Vial MeOH preserved	C	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2058202-03B	Vial water preserved	C	NA		2.1	Y	Absent	31-DEC-20 05:27	NYTCL-8260HLW-R2(14)
L2058202-03C	Vial water preserved	C	NA		2.1	Y	Absent	31-DEC-20 05:27	NYTCL-8260HLW-R2(14)
L2058202-03D	Plastic 2oz unpreserved for TS	C	NA		2.1	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: I20B-LARKIN DEVELOPMENT
Project Number: Not Specified

Lab Number: L2058202
Report Date: 01/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2058202-03E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2058202-03F	Glass 250ml/8oz unpreserved	C	NA		2.1	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	I20B-LARKIN DEVELOPMENT	**Lab Number:**	L2058202
Project Number:	Not Specified	**Report Date:**	01/11/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA
Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12/31/20

ALPHA Job #: L2058202

Project Information

Project Name: I20B-Larkin Development
Project Location: 822 Seneca Street
Project #
(Use Project name as Project #) [X]
Project Manager: Brandon Gunn
ALPHAQuote #:

Turn-Around Time

Standard [X]
Rush (only if pre approved) [ ]
Due Date:
# of Days:

Client Information

Client: AEI Environmental
Address: 8644 Buffalo Ave
Niagara Falls NY 14304
Phone: 716 283 7645
Fax:
Email: on file

Deliverables

[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [X] EQuIS (4 File)
[ ] Other NYSDEC 3 File

Regulatory Requirement

[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information

[ ] Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	Metals	PCBs	TS				Sample Specific Comments	Total Bottles
58202-01	Floor 1 20201229	12/29/20	14:20	soil	BG	X	X	X	X	X					
-02	Floor 2 20201229	12/29/20	14:30	↓	↓	X	X	X	X	X					
-03	Floor 3 20201229	12/29/20	14:40	↓	↓	X	X	X	X	X					

	VOCs	SVOCs	Metals	PCBs	TS			
Container Type	V	A	A	A	P			
Preservative	F	A	A	A	A			

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	12/30 16:00	[signature] AAL	12/30/20 1600
[signature] AAL	12/30 1600	[signature]	12/31/20 00:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Appendix F

Community Air Monitoring Plan Data

Test 288

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/07/2020
Instrument S/N	8530102707	Start Time	09:20:34
		Stop Date	07/07/2020
		Stop Time	09:35:34
		Total Time	0:00:15:00
		Logging Interval	60 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	07/07/2020	09:21:34	0.094
2	07/07/2020	09:22:34	0.087
3	07/07/2020	09:23:34	0.089
4	07/07/2020	09:24:34	0.088
5	07/07/2020	09:25:34	0.099
6	07/07/2020	09:26:34	0.088
7	07/07/2020	09:27:34	0.085
8	07/07/2020	09:28:34	0.086
9	07/07/2020	09:29:34	0.085
10	07/07/2020	09:30:34	0.089
11	07/07/2020	09:31:34	0.087
12	07/07/2020	09:32:34	0.086
13	07/07/2020	09:33:34	0.085
14	07/07/2020	09:34:34	0.085
15	07/07/2020	09:35:34	0.087

Test 289

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/07/2020
Instrument S/N	8530102707	Start Time	09:42:07
		Stop Date	07/07/2020
		Stop Time	13:12:07
		Total Time	0:03:30:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	07/07/2020	09:57:07	0.091
2	07/07/2020	10:12:07	0.083
3	07/07/2020	10:27:07	0.080
4	07/07/2020	10:42:07	0.082
5	07/07/2020	10:57:07	0.093
6	07/07/2020	11:12:07	0.111
7	07/07/2020	11:27:07	0.077
8	07/07/2020	11:42:07	0.078
9	07/07/2020	11:57:07	0.079
10	07/07/2020	12:12:07	0.084
11	07/07/2020	12:27:07	0.091
12	07/07/2020	12:42:07	0.089
13	07/07/2020	12:57:07	0.088
14	07/07/2020	13:12:07	0.084

Test 290

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/28/2020
Instrument S/N	8530102707	Start Time	08:29:21
		Stop Date	07/28/2020
		Stop Time	08:44:21
		Total Time	0:00:15:00
		Logging Interval	60 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	07/28/2020	08:30:21	0.358
2	07/28/2020	08:31:21	0.058
3	07/28/2020	08:32:21	0.063
4	07/28/2020	08:33:21	0.058
5	07/28/2020	08:34:21	0.055
6	07/28/2020	08:35:21	0.057
7	07/28/2020	08:36:21	0.057
8	07/28/2020	08:37:21	0.056
9	07/28/2020	08:38:21	0.056
10	07/28/2020	08:39:21	0.055
11	07/28/2020	08:40:21	0.056
12	07/28/2020	08:41:21	0.055
13	07/28/2020	08:42:21	0.055
14	07/28/2020	08:43:21	0.056
15	07/28/2020	08:44:21	0.056

Test 302

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/09/2020
Instrument S/N	8530102707	Start Time	08:51:51
		Stop Date	12/09/2020
		Stop Time	16:36:51
		Total Time	0:07:45:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/09/2020	09:06:51	0.143
2	12/09/2020	09:21:51	0.138
3	12/09/2020	09:36:51	0.135
4	12/09/2020	09:51:51	0.133
5	12/09/2020	10:06:51	0.137
6	12/09/2020	10:21:51	0.131
7	12/09/2020	10:36:51	0.131
8	12/09/2020	10:51:51	0.130
9	12/09/2020	11:06:51	0.132
10	12/09/2020	11:21:51	0.136
11	12/09/2020	11:36:51	0.142
12	12/09/2020	11:51:51	0.141
13	12/09/2020	12:06:51	0.143
14	12/09/2020	12:21:51	0.142
15	12/09/2020	12:36:51	0.139
16	12/09/2020	12:51:51	0.139
17	12/09/2020	13:06:51	0.144
18	12/09/2020	13:21:51	0.148
19	12/09/2020	13:36:51	0.150
20	12/09/2020	13:51:51	0.151
21	12/09/2020	14:06:51	0.152
22	12/09/2020	14:21:51	0.151
23	12/09/2020	14:36:51	0.150
24	12/09/2020	14:51:51	0.149
25	12/09/2020	15:06:51	0.143
26	12/09/2020	15:21:51	0.142
27	12/09/2020	15:36:51	0.145

28	12/09/2020	15:51:51	0.145
29	12/09/2020	16:06:51	0.139
30	12/09/2020	16:21:51	0.139
31	12/09/2020	16:36:51	0.140

Test 303

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/10/2020
Instrument S/N	8530102707	Start Time	08:36:10
		Stop Date	12/10/2020
		Stop Time	08:51:10
		Total Time	0:00:15:00
		Logging Interval	60 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/10/2020	08:37:10	0.123
2	12/10/2020	08:38:10	0.110
3	12/10/2020	08:39:10	0.105
4	12/10/2020	08:40:10	0.104
5	12/10/2020	08:41:10	0.103
6	12/10/2020	08:42:10	0.103
7	12/10/2020	08:43:10	0.103
8	12/10/2020	08:44:10	0.103
9	12/10/2020	08:45:10	0.103
10	12/10/2020	08:46:10	0.103
11	12/10/2020	08:47:10	0.104
12	12/10/2020	08:48:10	0.103
13	12/10/2020	08:49:10	0.104
14	12/10/2020	08:50:10	0.103
15	12/10/2020	08:51:10	0.103

Test 304

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/10/2020
Instrument S/N	8530102707	Start Time	09:01:10
		Stop Date	12/10/2020
		Stop Time	16:46:10
		Total Time	0:07:45:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/10/2020	09:16:10	0.112
2	12/10/2020	09:31:10	0.114
3	12/10/2020	09:46:10	0.112
4	12/10/2020	10:01:10	0.112
5	12/10/2020	10:16:10	0.114
6	12/10/2020	10:31:10	0.111
7	12/10/2020	10:46:10	0.112
8	12/10/2020	11:01:10	0.113
9	12/10/2020	11:16:10	0.114
10	12/10/2020	11:31:10	0.111
11	12/10/2020	11:46:10	0.111
12	12/10/2020	12:01:10	0.110
13	12/10/2020	12:16:10	0.108
14	12/10/2020	12:31:10	0.112
15	12/10/2020	12:46:10	0.118
16	12/10/2020	13:01:10	0.109
17	12/10/2020	13:16:10	0.108
18	12/10/2020	13:31:10	0.109
19	12/10/2020	13:46:10	0.110
20	12/10/2020	14:01:10	0.108
21	12/10/2020	14:16:10	0.109
22	12/10/2020	14:31:10	0.116
23	12/10/2020	14:46:10	0.112
24	12/10/2020	15:01:10	0.119
25	12/10/2020	15:16:10	0.112
26	12/10/2020	15:31:10	0.111
27	12/10/2020	15:46:10	0.110

28	12/10/2020	16:01:10	0.110
29	12/10/2020	16:16:10	0.111
30	12/10/2020	16:31:10	0.114
31	12/10/2020	16:46:10	0.115

Test 305

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/11/2020
Instrument S/N	8530102707	Start Time	07:47:01
		Stop Date	12/11/2020
		Stop Time	09:47:01
		Total Time	0:02:00:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/11/2020	08:02:01	0.121
2	12/11/2020	08:17:01	0.120
3	12/11/2020	08:32:01	0.121
4	12/11/2020	08:47:01	0.121
5	12/11/2020	09:02:01	0.122
6	12/11/2020	09:17:01	0.122
7	12/11/2020	09:32:01	0.122
8	12/11/2020	09:47:01	0.121

Test 283

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/21/2020
Instrument S/N	8530183909	Start Time	08:10:32
		Stop Date	07/21/2020
		Stop Time	08:25:32
		Total Time	0:00:15:00
		Logging Interval	60 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	07/21/2019	08:11:32	0.008
2	07/21/2019	08:12:32	0.002
3	07/21/2019	08:13:32	0.001
4	07/21/2019	08:14:32	0.001
5	07/21/2019	08:15:32	0.010
6	07/21/2019	08:16:32	0.012
7	07/21/2019	08:17:32	0.031
8	07/21/2019	08:18:32	0.019
9	07/21/2019	08:19:32	0.017
10	07/21/2019	08:20:32	0.014
11	07/21/2019	08:21:32	0.013
12	07/21/2019	08:22:32	0.013
13	07/21/2019	08:23:32	0.010
14	07/21/2019	08:24:32	0.022
15	07/21/2019	08:25:32	0.027

Test 284

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/21/2020
Instrument S/N	8530183909	Start Time	08:28:22
		Stop Date	07/21/2020
		Stop Time	09:58:22
		Total Time	0:01:30:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	07/21/2019	08:43:22	0.014
2	07/21/2019	08:58:22	0.003
3	07/21/2019	09:13:22	0.001
4	07/21/2019	09:28:22	0.003
5	07/21/2019	09:43:22	0.001
6	07/21/2019	09:58:22	0.000

Test 285

Instrument		Data Properties	
Model	DustTrak II	Start Date	10/27/2020
Instrument S/N	8530183909	Start Time	07:16:15
		Stop Date	10/27/2020
		Stop Time	07:31:15
		Total Time	0:00:15:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
1	10/27/2020	07:17:15	0.000
2	10/27/2020	07:18:15	0.000
3	10/27/2020	07:19:15	0.000
4	10/27/2020	07:20:15	0.003
5	10/27/2020	07:21:15	0.014
6	10/27/2020	07:22:15	0.013
7	10/27/2020	07:23:15	0.010
8	10/27/2020	07:24:15	0.005
9	10/27/2020	07:25:15	0.006
10	10/27/2020	07:26:15	0.004
11	10/27/2020	07:27:15	0.004
12	10/27/2020	07:28:15	0.018
13	10/27/2020	07:29:15	0.023
14	10/27/2020	07:30:15	0.009
15	10/27/2020	07:31:15	0.005

Test 286

Instrument		Data Properties	
Model	DustTrak II	Start Date	10/27/2020
Instrument S/N	8530183909	Start Time	07:31:56
		Stop Date	10/27/2020
		Stop Time	15:31:56
		Total Time	0:08:00:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	10/27/2020	07:46:56	0.002
2	10/27/2020	08:01:56	0.000
3	10/27/2020	08:16:56	0.000
4	10/27/2020	08:31:56	0.000
5	10/27/2020	08:46:56	0.000
6	10/27/2020	09:01:56	0.000
7	10/27/2020	09:16:56	0.000
8	10/27/2020	09:31:56	0.000
9	10/27/2020	09:46:56	0.000
10	10/27/2020	10:01:56	0.000
11	10/27/2020	10:16:56	0.000
12	10/27/2020	10:31:56	0.000
13	10/27/2020	10:46:56	0.000
14	10/27/2020	11:01:56	0.000
15	10/27/2020	11:16:56	0.000
16	10/27/2020	11:31:56	0.000
17	10/27/2020	11:46:56	0.000
18	10/27/2020	12:01:56	0.000
19	10/27/2020	12:16:56	0.000
20	10/27/2020	12:31:56	0.000
21	10/27/2020	12:46:56	0.000
22	10/27/2020	13:01:56	0.000
23	10/27/2020	13:16:56	0.000
24	10/27/2020	13:31:56	0.000
25	10/27/2020	13:46:56	0.000
26	10/27/2020	14:01:56	0.000
27	10/27/2020	14:16:56	0.000

28	10/27/2020	14:31:56	0.000
29	10/27/2020	14:46:56	0.000
30	10/27/2020	15:01:56	0.000
31	10/27/2020	15:16:56	0.000
32	10/27/2020	15:31:56	0.000

Test 314

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/14/2020
Instrument S/N	8530102707	Start Time	08:00:00
		Stop Date	12/14/2020
		Stop Time	08:15:00
		Total Time	0:00:15:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
1	12/14/2020	08:01:00	0.110
2	12/14/2020	08:02:00	0.110
3	12/14/2020	08:03:00	0.110
4	12/14/2020	08:04:00	0.109
5	12/14/2020	08:05:00	0.109
6	12/14/2020	08:06:00	0.109
7	12/14/2020	08:07:00	0.109
8	12/14/2020	08:08:00	0.109
9	12/14/2020	08:09:00	0.108
10	12/14/2020	08:10:00	0.108
11	12/14/2020	08:11:00	0.108
12	12/14/2020	08:12:00	0.108
13	12/14/2020	08:13:00	0.107
14	12/14/2020	08:14:00	0.107
15	12/14/2020	08:15:00	0.107

Test 315

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/14/2020
Instrument S/N	8530102707	Start Time	08:22:38
		Stop Date	12/14/2020
		Stop Time	12:37:38
		Total Time	0:04:15:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/14/2020	08:37:38	0.114
2	12/14/2020	08:52:38	0.108
3	12/14/2020	09:07:38	0.105
4	12/14/2020	09:22:38	0.108
5	12/14/2020	09:37:38	0.115
6	12/14/2020	09:52:38	0.114
7	12/14/2020	10:07:38	0.111
8	12/14/2020	10:22:38	0.112
9	12/14/2020	10:37:38	0.107
10	12/14/2020	10:52:38	0.107
11	12/14/2020	11:07:38	0.106
12	12/14/2020	11:22:38	0.106
13	12/14/2020	11:37:38	0.107
14	12/14/2020	11:52:38	0.107
15	12/14/2020	12:07:38	0.107
16	12/14/2020	12:22:38	0.108
17	12/14/2020	12:37:38	0.107

Test 316

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/15/2020
Instrument S/N	8530102707	Start Time	08:51:56
		Stop Date	12/15/2020
		Stop Time	09:06:56
		Total Time	0:00:15:00
		Logging Interval	60 seconds

Test Data			
Data Point	Date	Time	AEROSOL mg/m^3
1	12/15/2020	08:52:56	0.118
2	12/15/2020	08:53:56	0.115
3	12/15/2020	08:54:56	0.115
4	12/15/2020	08:55:56	0.114
5	12/15/2020	08:56:56	0.115
6	12/15/2020	08:57:56	0.113
7	12/15/2020	08:58:56	0.113
8	12/15/2020	08:59:56	0.113
9	12/15/2020	09:00:56	0.113
10	12/15/2020	09:01:56	0.112
11	12/15/2020	09:02:56	0.112
12	12/15/2020	09:03:56	0.112
13	12/15/2020	09:04:56	0.114
14	12/15/2020	09:05:56	0.115
15	12/15/2020	09:06:56	0.115

Test 317

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/15/2020
Instrument S/N	8530102707	Start Time	09:07:15
		Stop Date	12/15/2020
		Stop Time	17:52:15
		Total Time	0:08:45:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/15/2020	09:22:15	0.111
2	12/15/2020	09:37:15	0.109
3	12/15/2020	09:52:15	0.108
4	12/15/2020	10:07:15	0.108
5	12/15/2020	10:22:15	0.108
6	12/15/2020	10:37:15	0.109
7	12/15/2020	10:52:15	0.109
8	12/15/2020	11:07:15	0.109
9	12/15/2020	11:22:15	0.108
10	12/15/2020	11:37:15	0.109
11	12/15/2020	11:52:15	0.110
12	12/15/2020	12:07:15	0.110
13	12/15/2020	12:22:15	0.110
14	12/15/2020	12:37:15	0.110
15	12/15/2020	12:52:15	0.110
16	12/15/2020	13:07:15	0.110
17	12/15/2020	13:22:15	0.110
18	12/15/2020	13:37:15	0.110
19	12/15/2020	13:52:15	0.110
20	12/15/2020	14:07:15	0.110
21	12/15/2020	14:22:15	0.109
22	12/15/2020	14:37:15	0.109
23	12/15/2020	14:52:15	0.109
24	12/15/2020	15:07:15	0.109
25	12/15/2020	15:22:15	0.109
26	12/15/2020	15:37:15	0.109
27	12/15/2020	15:52:15	0.109

28	12/15/2020	16:07:15	0.109
29	12/15/2020	16:22:15	0.109
30	12/15/2020	16:37:15	0.109
31	12/15/2020	16:52:15	0.109
32	12/15/2020	17:07:15	0.108
33	12/15/2020	17:22:15	0.108
34	12/15/2020	17:37:15	0.108
35	12/15/2020	17:52:15	0.108

Test 318

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/16/2020
Instrument S/N	8530102707	Start Time	07:41:34
		Stop Date	12/16/2020
		Stop Time	07:56:34
		Total Time	0:00:15:00
		Logging Interval	60 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/16/2020	07:42:34	0.106
2	12/16/2020	07:43:34	0.107
3	12/16/2020	07:44:34	0.108
4	12/16/2020	07:45:34	0.107
5	12/16/2020	07:46:34	0.106
6	12/16/2020	07:47:34	0.107
7	12/16/2020	07:48:34	0.107
8	12/16/2020	07:49:34	0.119
9	12/16/2020	07:50:34	0.107
10	12/16/2020	07:51:34	0.108
11	12/16/2020	07:52:34	0.108
12	12/16/2020	07:53:34	0.107
13	12/16/2020	07:54:34	0.110
14	12/16/2020	07:55:34	0.107
15	12/16/2020	07:56:34	0.107

Test 319

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/16/2020
Instrument S/N	8530102707	Start Time	07:56:57
		Stop Date	12/16/2020
		Stop Time	11:26:57
		Total Time	0:03:30:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/16/2020	08:11:57	0.106
2	12/16/2020	08:26:57	0.106
3	12/16/2020	08:41:57	0.108
4	12/16/2020	08:56:57	0.108
5	12/16/2020	09:11:57	0.107
6	12/16/2020	09:26:57	0.106
7	12/16/2020	09:41:57	0.107
8	12/16/2020	09:56:57	0.109
9	12/16/2020	10:11:57	0.108
10	12/16/2020	10:26:57	0.107
11	12/16/2020	10:41:57	0.106
12	12/16/2020	10:56:57	0.107
13	12/16/2020	11:11:57	0.107
14	12/16/2020	11:26:57	0.107

APPENDIX J

DECOMMISSIONING OF MW 101 REPORT

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

June 14h, 2020

Ms. Megan Kuczka
NYSDEC
270 Michigan Avenue
Buffalo, New York 14203

Re: Decommissioning Notification for Monitoring Well MW-101
Former American Linen Supply Company Site
822 Seneca Street, Buffalo, NY
BCP Site No. C915241

Dear Ms. Kuczka:

Benchmark Environmental Engineering & Science, PLLC (Benchmark) has prepared this correspondence to transmit well decommissioning records for monitoring well MW-101, located at 822 Seneca St. in Buffalo, NY (i.e., Former American Linen Supply Company Site).

The monitoring well was decommissioned on June 8th, 2020 by Earth Dimensions Inc. via tremie grouting in place. The flush mount protective casing was removed following grouting and the surface was restored with asphalt patch material. A NY State licensed professional geologist was onsite to observe the work on behalf of Benchmark. The attached decommissioning and photos document the work.

Please contact us if you have any questions or require additional information.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC

Thomas H. Forbes, P.E.
Principal Engineer

File: 0126-020-001

C: G. Kriner (Mill Race Commons)
D. Chadsey (Kavinoky Cook)

2558 Hamburg Turnpike, Suite 300 | Buffalo, NY 14218
phone: (716) 856-0599 | fax: (716) 856-0583

ATTACHMENT 1

DRILLERS DECOMMISSIONING LOG AND PHOTO DOCUMENTATION

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

EARTH DIMENSIONS, INC.
1091 Jamison Road • Elma, NY 14059

EDI # 2F20

Site Name: 822 SENECA STREET	Well I.D. MW-101
Site Location: CITY OF BUFFALO, ERIE Co, NY	Driller: PHILIP BLACK
Drilling Co: EDI	Inspector:
	Date: 6/8/20

DECOMMISSIONING DATA
(fill in all that apply)

OVERDRILLING

Interval drilled	N/A
Drilling Method(s)	
Borehole Dia. (in)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	

CASING PULLING

Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	

Casing perforating

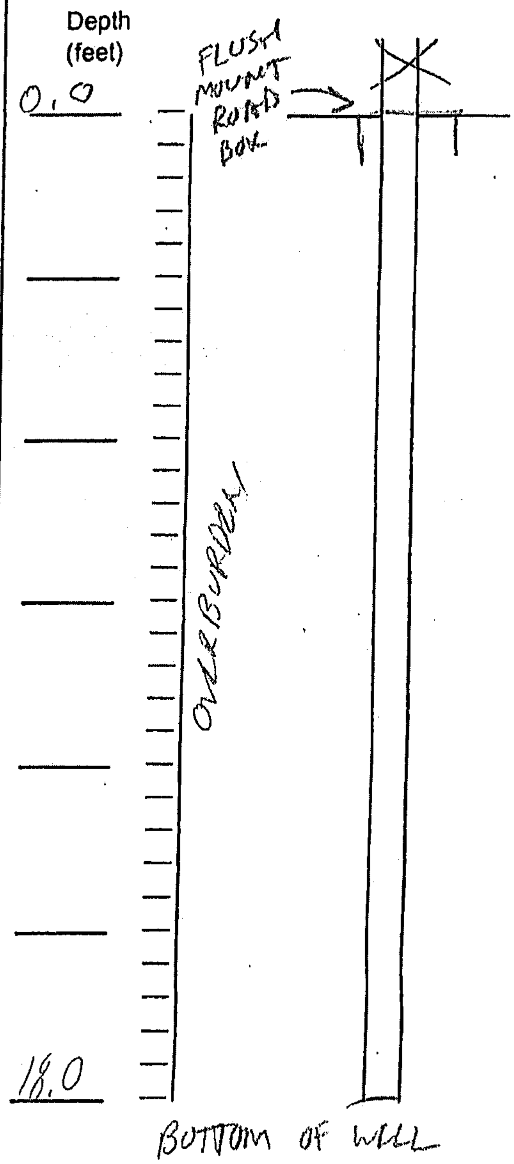
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	

GROUTING

Interval grouted (FBLS)	0.0-18.0
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	~~44~~ 4
Quantity of cement used (lbs.)	~~9~~ 47
Cement type	PORTLAND TYPE 2
Quantity of bentonite used (lbs.)	2
Quantity of calcium chloride used (lbs.)	X
Volume of grout prepared (gal.)	8
Volume of grout used (gal.)	5

COMMENTS: TREMIE GROUTED IN ACCORDANCE w/ CP43 FROM 18.0 FEET TO G.S. REMOVED FLUSH MOUNT CASING AND CONCRETE PAD, REPAIRED SURFACE w/ ASPHALT BLACKTOP PATCH

WELL SCHEMATIC*



* Sketch in all relevant decommissioning data including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Dept Representative

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Kavinoky Cook, LLC.	822 Seneca St. Buffalo , NY	B0126-020-002

Photo No.	Date
1	06/08/20

Direction Photo Taken:
West

Description:
Well prepped MW-101 for application of grout through tremie pipe.

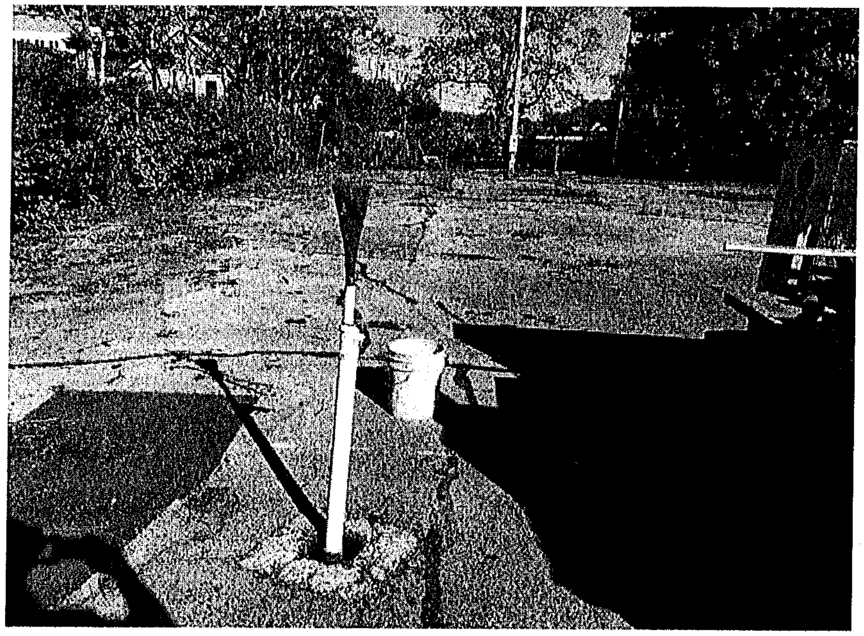


Photo No.	Date
2	06/08/20

Direction Photo Taken:
East.

Description:
Adding grout to MW-101.

Prepared By: TAB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Kavinoky Cook, LLC.	822 Seneca St. Buffalo , NY	B0126-020-002

Photo No.	Date
3	06/08/20

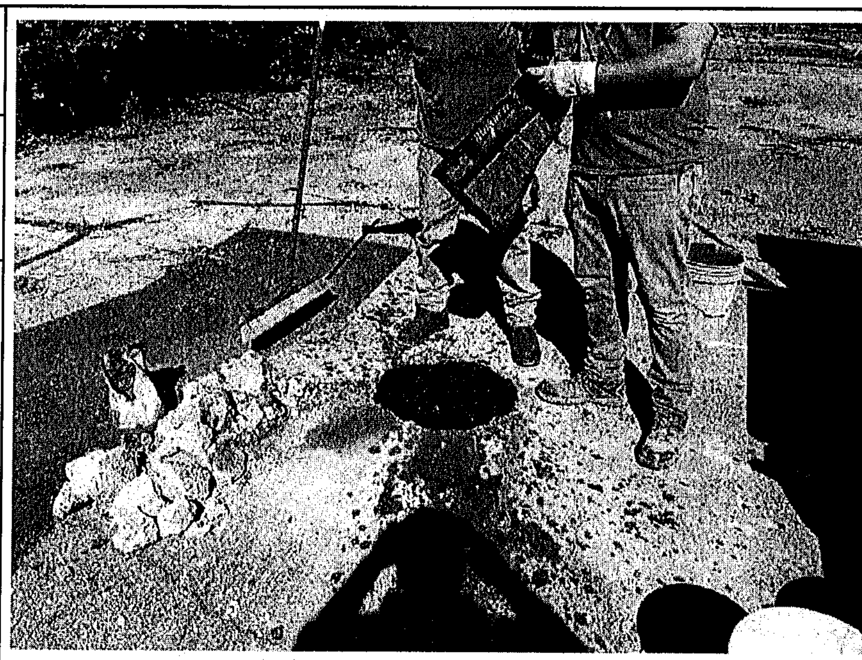
Direction Photo Taken:
West

Description:
Removal of Concrete road box.

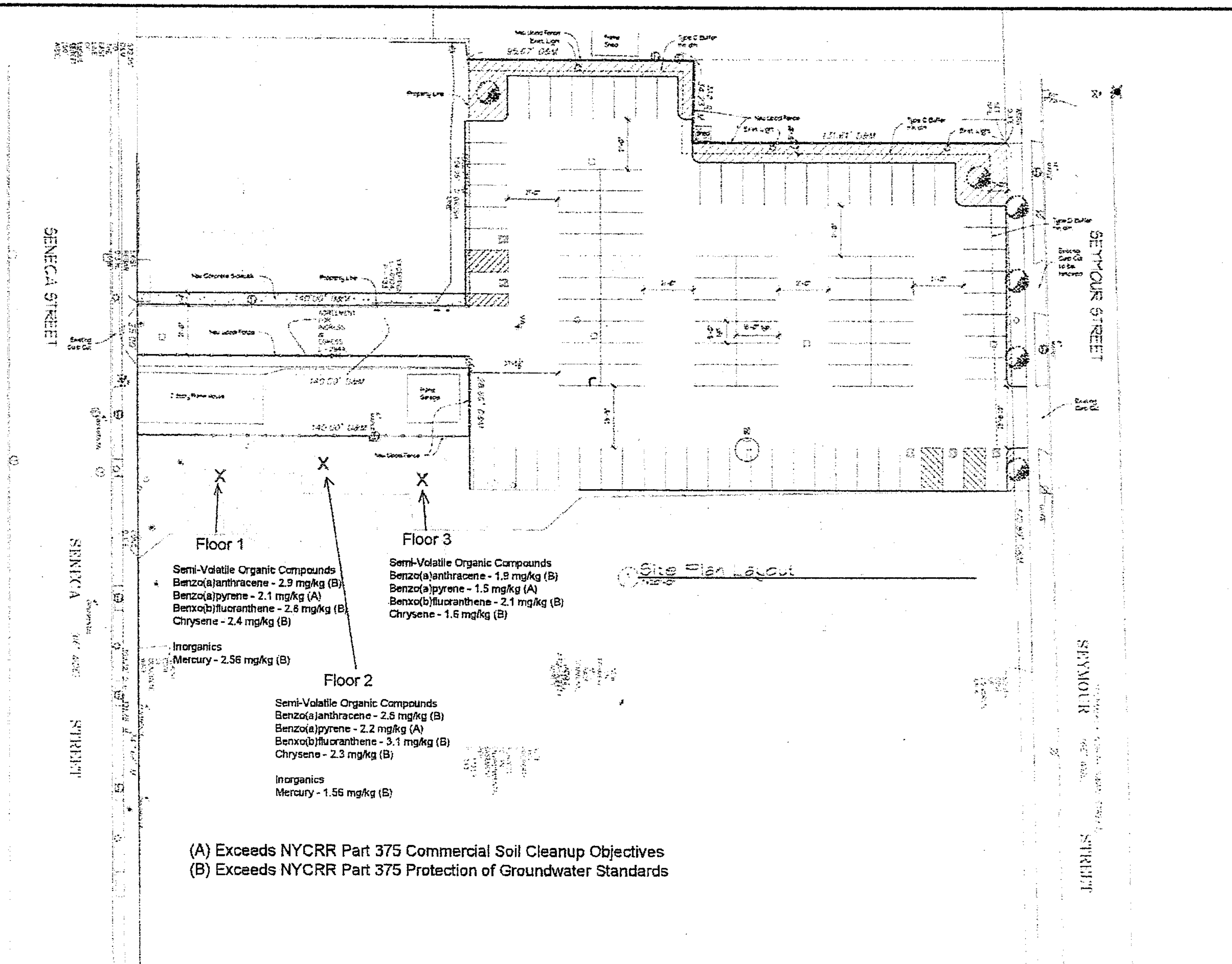
Photo No.	Date
4	06/08/20

Direction Photo Taken:
West

Description:
Adding black top cold patch to match exisitng grade.



Prepared By: *TAB*



Key:

- New Asphalt
- New Landscaping
- New Concrete

Residual Soil Conditions Beneath the Demarcation Layer in Locationof Cap Modification

Former American Linen Suply Company Facility (C915241)
822 Seneca Street
Buffalo NY 14220

I20B - Larkin Development
Ameripride Site

rev1mmrr
04/06/2020